



**DATA TRANSMITTAL REPORT FOR THE
YELLOWSTONE NATIONAL PARK
WINTER USE AIR QUALITY STUDY
DECEMBER 15, 2006 – MARCH 15, 2007**

Prepared for

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LIST OF ACRONYMS AND ABBREVIATIONS

AQDB	Air Quality Database
ARS	Air Resource Specialists, Inc.
AT/RH	Ambient Temperature and Relative Humidity
BAM	Beta Attenuation Monitor
CO	Carbon Monoxide
NAAQS	National Ambient Air Quality Standards
NPS	National Park Service
PM _{2.5}	Particulate Matter Equal to or Less than 2.5 Microns

1.0 INTRODUCTION

Air Resource Specialists, Inc. (ARS) was contracted by the National Park Service (NPS) to conduct an air quality monitoring study in Yellowstone National Park to help assess the impact of human-caused pollutants during periods of winter activity. In the winter months, Yellowstone National Park opens roads to over-snow vehicles (snowmobiles and snow coaches) as soon as adequate snow accumulations and safe driving conditions allow.

The monitoring program for the 2006-2007 season began December 15, 2006, and ran through March 15, 2007. The monitoring effort included meteorological, gaseous, particulate, and photographic monitoring near Old Faithful geyser. The meteorological, gaseous, and particulate variables were monitored continuously. A digital camera system was mounted on top of the monitoring shelter and captured images of the Old Faithful parking area. Similar monitoring programs operated during the four previous winter seasons.

This data report presents all data collected during the study period, December 15, 2006, through March 15, 2007. The report is organized into the following major sections:

- Section 1.0 Introduction
- Section 2.0 Site Location and Configuration
- Section 3.0 Data Collection, Validation, and Quality Assurance
- Section 4.0 Data Summaries
- Appendix A Maintenance and Calibration
- Appendix B Photographic Monitoring

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2.0 SITE LOCATION AND CONFIGURATION

Monitoring was conducted by ARS in the Old Faithful area of Yellowstone National Park. Table 2-1 summarizes the instrumentation type and data collection parameters at the site. A map detailing the location of the monitoring site is presented as Figure 2-1.

2.1 OLD FAITHFUL MONITORING SITE

The Old Faithful monitoring shelter was moved for the 2006-2007 winter season to the east of the main parking lot for the Snow Lodge and southeast of the Old Faithful geyser. Instrumentation at the site included wind speed/wind direction sensor, ambient temperature and relative humidity (AT/RH) sensor, carbon monoxide (CO) analyzer, and a beta attenuation monitor (BAM) for collection of fine particulate matter. A digital camera was installed on top of the monitoring shelter and overlooked the main vehicle parking lot. Figure 2-2 presents a photograph of the monitoring shelter at the Old Faithful site.

This shelter was located in close proximity to the Old Faithful geyser. Geysers can emit several types of gases. The most abundant gas is carbon dioxide, but geysers can also emit oxygen, carbon monoxide, hydrogen methane, nitrogen, argon, and hydrogen sulfide. Old Faithful is the most regular geyser in the basin area and erupts approximately every 60-90 minutes. Figure 2-3 presents a map of the Old Faithful area.

Table 2-1
Yellowstone National Park
Winter Use Air Quality Monitoring Study Instrumentation
December 15, 2006 - March 15, 2007

Sampler	Sampler Type	Sampler Model No.	Averaging Period	Sample Frequency
Meteorological	Wind Speed and Wind Direction (R.M. Young)	05305	1-hour	Continuous
Meteorological	Ambient Temperature and Relative Humidity (Vaisala)	HMP 45C	1-hour	Continuous
Gaseous	CO Analyzer (Thermo Environmental)	TEI 48C	1-hour	Continuous
Particulate	BAM PM _{2.5} (ThermoAndersen)	FH 62 C14	1-hour	Continuous
Photographic	Digital Web Camera (Kodak)	HRDC-1	--	Every 15 minutes

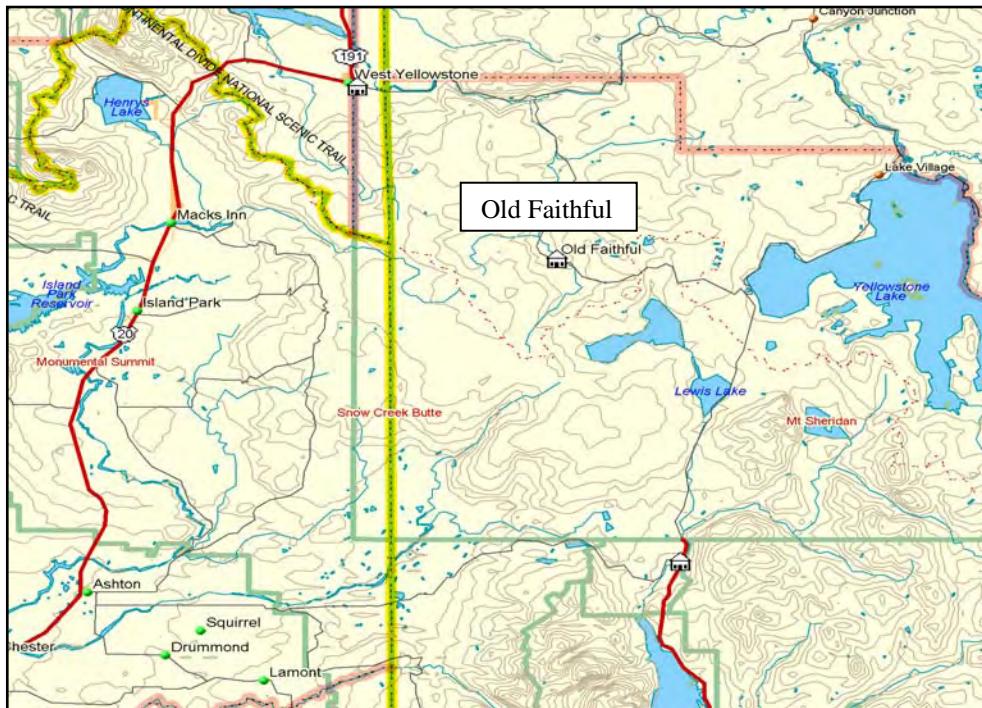


Figure 2-1. Monitoring Site Location.



Figure 2-2. Monitoring Shelter at the Old Faithful Site.

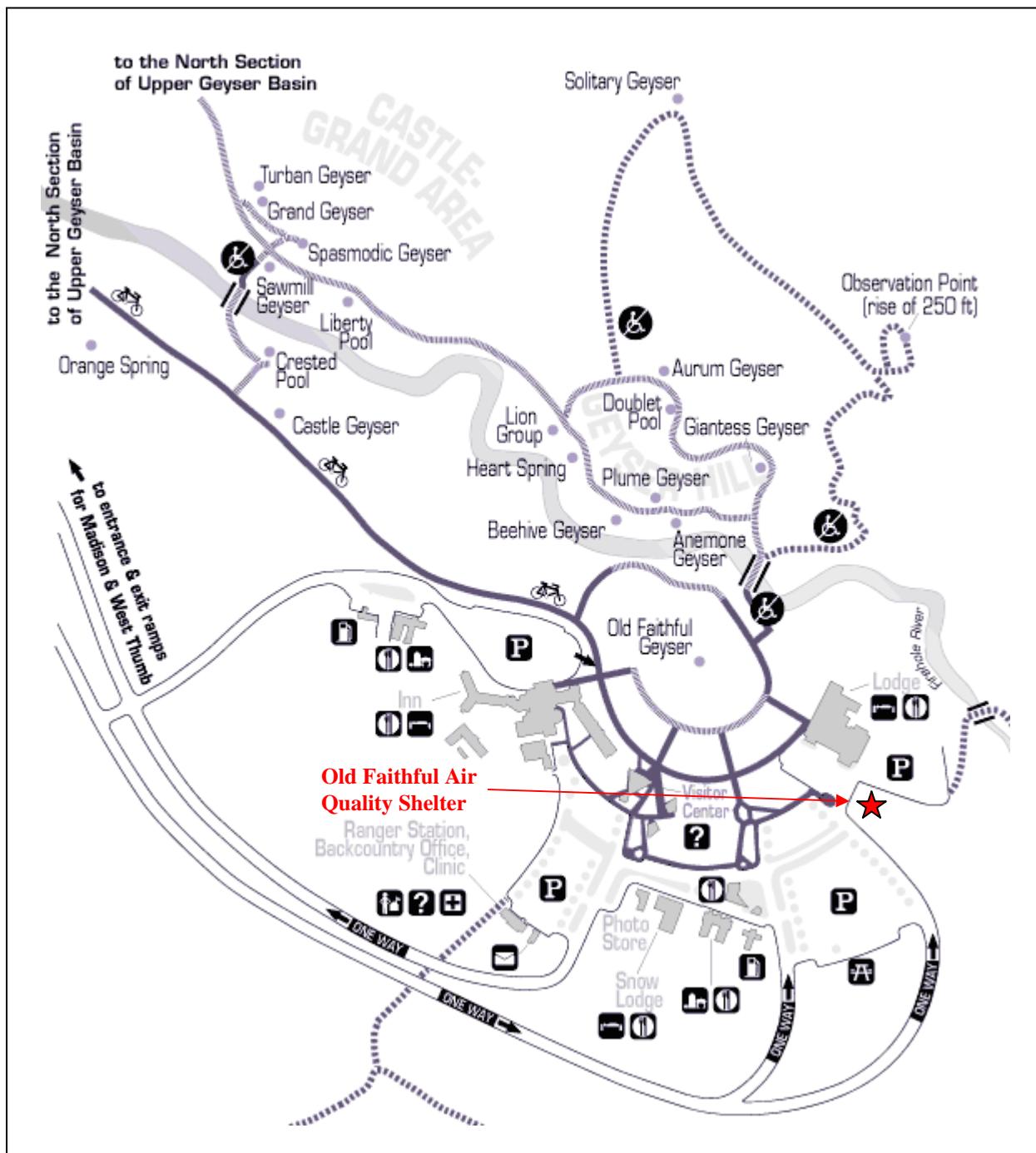


Figure 2-3. Old Faithful Area Map.

3.0 DATA COLLECTION, VALIDATION, AND QUALITY ASSURANCE

This section describes the instrumentation, data acquisition, validation, and quality assurance of meteorological, gaseous, particulate, and photographic monitoring data collected by ARS during the study.

3.1 SUMMARY OF AIR QUALITY AND METEOROLOGICAL MONITORING

At the Old Faithful site continuous CO and PM_{2.5} analyzers were operated during the study to help assess the impact of human-caused pollutants during periods of winter activity. Meteorological sensors were operated during the study to better characterize the overall meteorology of the region. All continuous meteorological, gaseous, and particulate data were collected with the site ESC8816 datalogger. The datalogger sampled the measurement channels at a frequency of once per second and averages were calculated and reported at 1-hour intervals. The datalogger was connected to a telephone modem, allowing remote access of the data. The data were downloaded nightly. This section describes the collection, validation, and quality assurance of data collected by ARS at the Old Faithful site.

3.1.1 Air Quality and Meteorological Monitoring System

The air quality and meteorological monitoring system at Old Faithful consisted of the following instruments:

- Thermo Environmental Instruments 48C CO Analyzer
- ThermoAndersen Model FH 62 C14 BAM with a PM_{2.5} Size Cut
- Vaisala HMP 45C AT/RH Sensor
- R.M. Young Model #05305 Wind Sensor

3.1.2 Air Quality and Meteorological Data Collection and Validation

Meteorological, gaseous, and particulate data collection and validation steps followed the protocol set forth by the NPS Gaseous Pollutant Monitoring Program, and included:

- Raw hourly meteorological, CO, PM_{2.5}, and data collected nightly via modem and uploaded to the ARS Air Quality Database (AQDB).
- Raw data and nightly calibration (zero and span) data were plotted and reviewed weekly to identify operational problems and initiate corrective procedures as soon as possible.
- Information from communications with the operators was used to identify inconsistencies and errors in the data.

- Recording and reviewing comments on raw data stackplots, and entering validation codes and adjusting values in the AQDB as needed.
- Reviewing validated stackplots, resolving all inconsistencies and labeling the data as final validated.

3.1.3 Air Quality and Meteorological Sensor Uncertainty

The sensors were calibrated before the study began and again following project completion. All sensor calibrations performed in October 2006 passed data validation acceptance criteria except for the CO analyzer. The CO analyzer failed the calibration at the upper points. The instrument was adjusted and was reading accurately at all points prior to the start of the 2006-2007 winter season. The instrument also failed the post-season calibration that was performed in May 2007. The analyzer was found reporting high by an average of 9.5%. This end-of season offset did not invalidate the data because data were corrected for this drift throughout the season. Automated zeros were performed throughout the study every four hours and the results of these zeros indicate that the instrument response drifted upwards. All CO data were corrected based on the results of these zeros. Calibration and maintenance results are presented in Appendix A.

The detection limit for the ThermoAnderson BAM is approximately $6 \text{ } \mu\text{g}/\text{m}^3$ for 1-hour averages.

3.2 SUMMARY OF PHOTOGRAPHIC MONITORING

Routine photographic monitoring was conducted at the Old Faithful site consisting of digital photographs taken every 15 minutes to document weather conditions, type and intensity of activity, and the presence of haze or exhaust. Images were posted to a Web site for easy review by various project participants. Due to the angle of the camera and distance to the snowmobile parking lot, counting the number of snowmobiles in each photograph was not possible. Instead, a coding scheme was used to estimate visible vehicular traffic from low to high. A summary of the codes is presented in Section 4.5, and a full listing of all images and their respective codes is presented in Appendix B.

4.0 DATA SUMMARIES

This section presents a summary of all data collected during the winter use season, December 15, 2006, through March 15, 2007.

4.1 DATA COLLECTION AND VALIDATION STATISTICS

Table 4-1 presents data collection statistics for the study period for the Old Faithful site. The data recovery for meteorological parameters during the period exceeded 99%. Carbon monoxide and particulate data recovery exceeded 90%.

4.1.1 Old Faithful

The CO analyzer at the Old Faithful site experienced a significant amount of zero drift over the study period. In past studies the raw ambient data were zero adjusted when the zero calibration check was greater than 1% of the instruments full scale value (0.2 ppm). For the 2006-2007 study automated zeros ran on the CO analyzer every four (4) hours and the results were automatically applied to the raw data by the datalogger.

4.2 DATA TIME SERIES

Time series plots for showing meteorological, gaseous, and particulate parameters can be found in Figures 4-1 through 4-4.

Table 4-1

Data Collection Statistics Yellowstone National Park Old Faithful Final Validation 12/15/2006 - 03/15/2007							
Parameter	Interval	Par Code	Data Recovery			Valid Data	
			No. Possible	No. Collected	% Collected	No. Valid	% Valid
Carbon Monoxide	hourly	CO	2184	2093	95.8	2093	95.8
Particulate Matter 2.5 Bam 1020	hourly	PM2.5B	2184	2184	100.0	2041	93.5
Relative Humidity	hourly	RH	2184	2184	100.0	2184	100.0
Standard Deviation for Wind Direction	hourly	SDWD	2184	2170	99.4	2170	99.4
Station Temperature	hourly	STP	2184	2184	100.0	2184	100.0
Scalar Wind Speed	hourly	SWS	2184	2170	99.4	2170	99.4
Ambient Temperature (aspirated)	hourly	TMP	2184	2184	100.0	2184	100.0
Vector Wind Direction	hourly	VWD	2184	2170	99.4	2170	99.4
Vector Wind Speed	hourly	VWS	2184	2170	99.4	2170	99.4

Notes: The percent valid is calculated against the number possible.

Automatic zeros and spans are performed daily on most ambient gas analyzers, therefore, no ambient data can be collected during this time. As a result, the maximum percent valid for ambient gas data typically can not be greater than 95.8.

Performance Goals:	<u>Quarterly Criteria:</u>	<u>Monthly Criteria:</u>
	100% of sites, >= 85% valid data capture	100% of sites, >= 60% valid data capture
	90% of sites, >= 90% valid data capture	90% of sites, >= 75% valid data capture
	80% of sites, >= 95% valid data capture	80% of sites, >= 85% valid data capture

Yellowstone National Park - Old Faithful

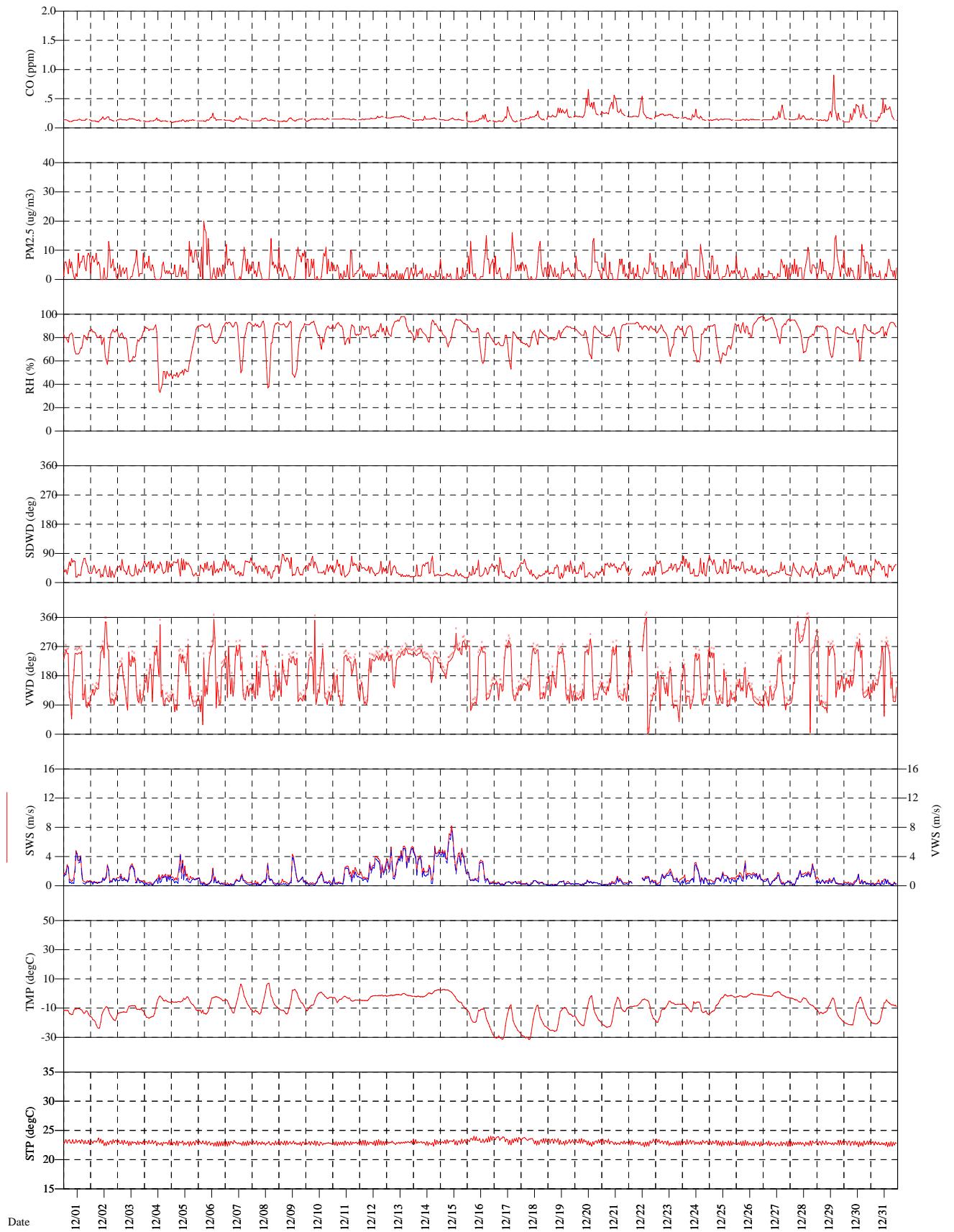


Figure 4-1. Time Series Plot for Old Faithful, December 2006.

Yellowstone National Park - Old Faithful

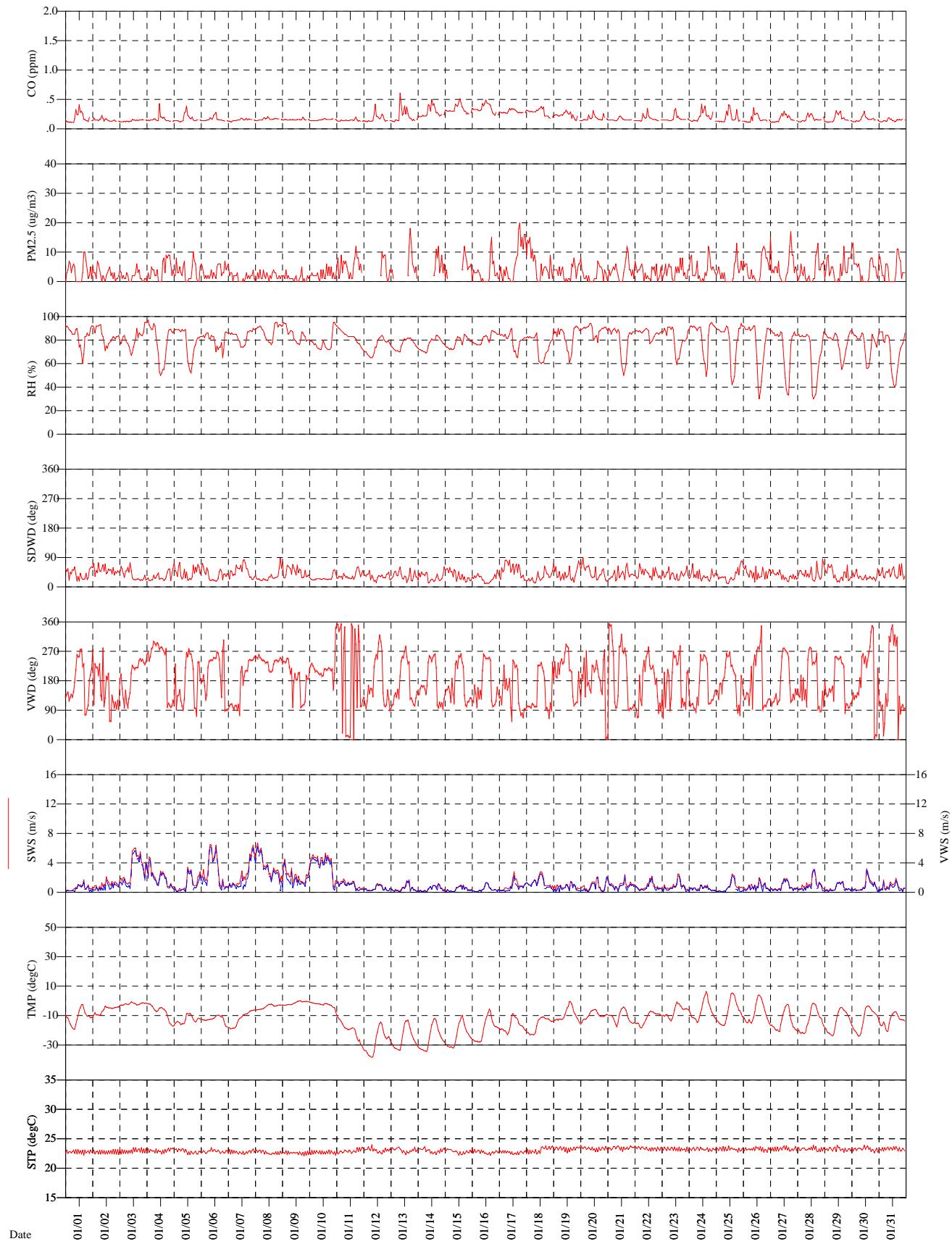


Figure 4-2. Time Series Plot for Old Faithful, January 2007.

Yellowstone National Park - Old Faithful

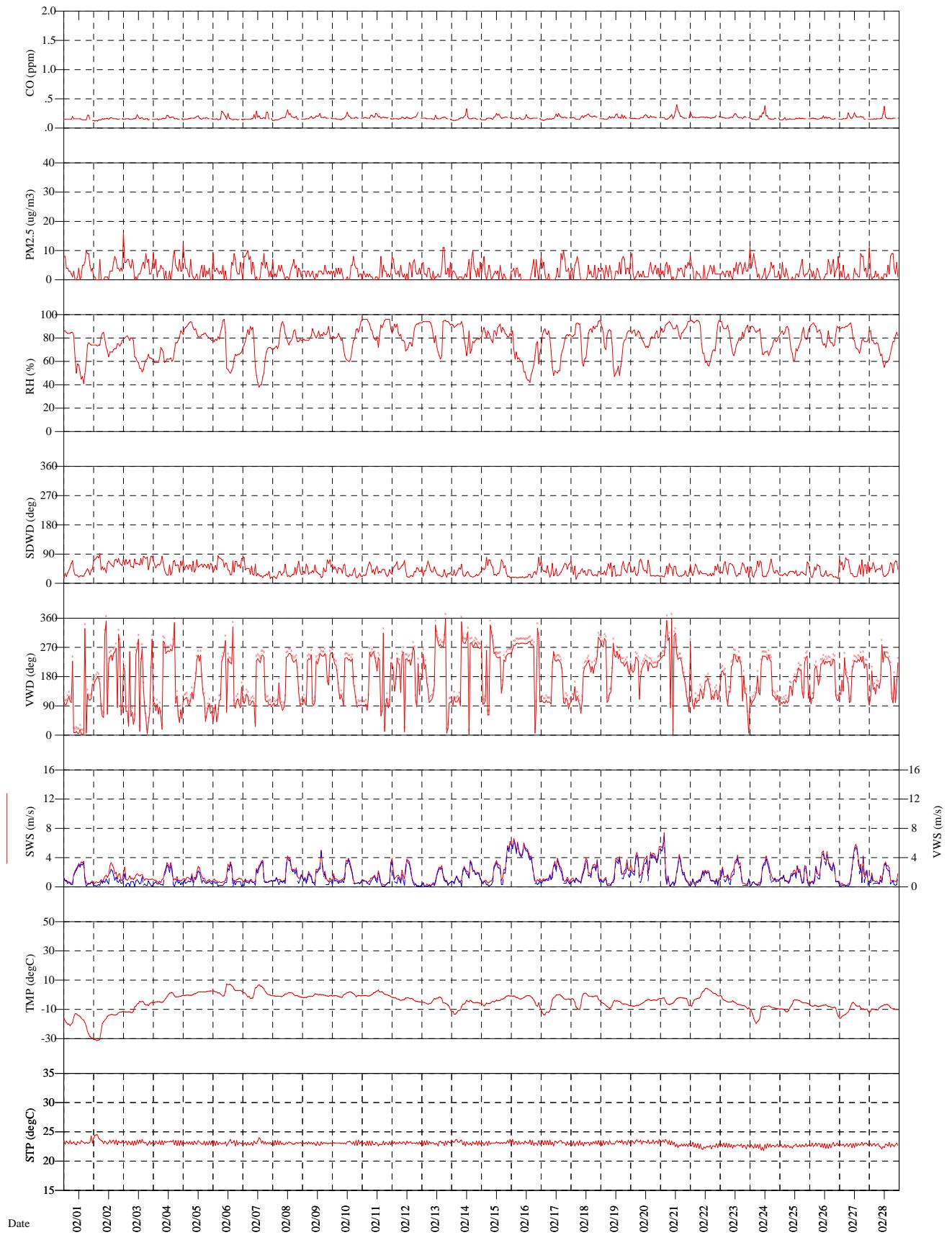


Figure 4-3. Time Series Plot for Old Faithful, February 2007.

Yellowstone National Park - Old Faithful

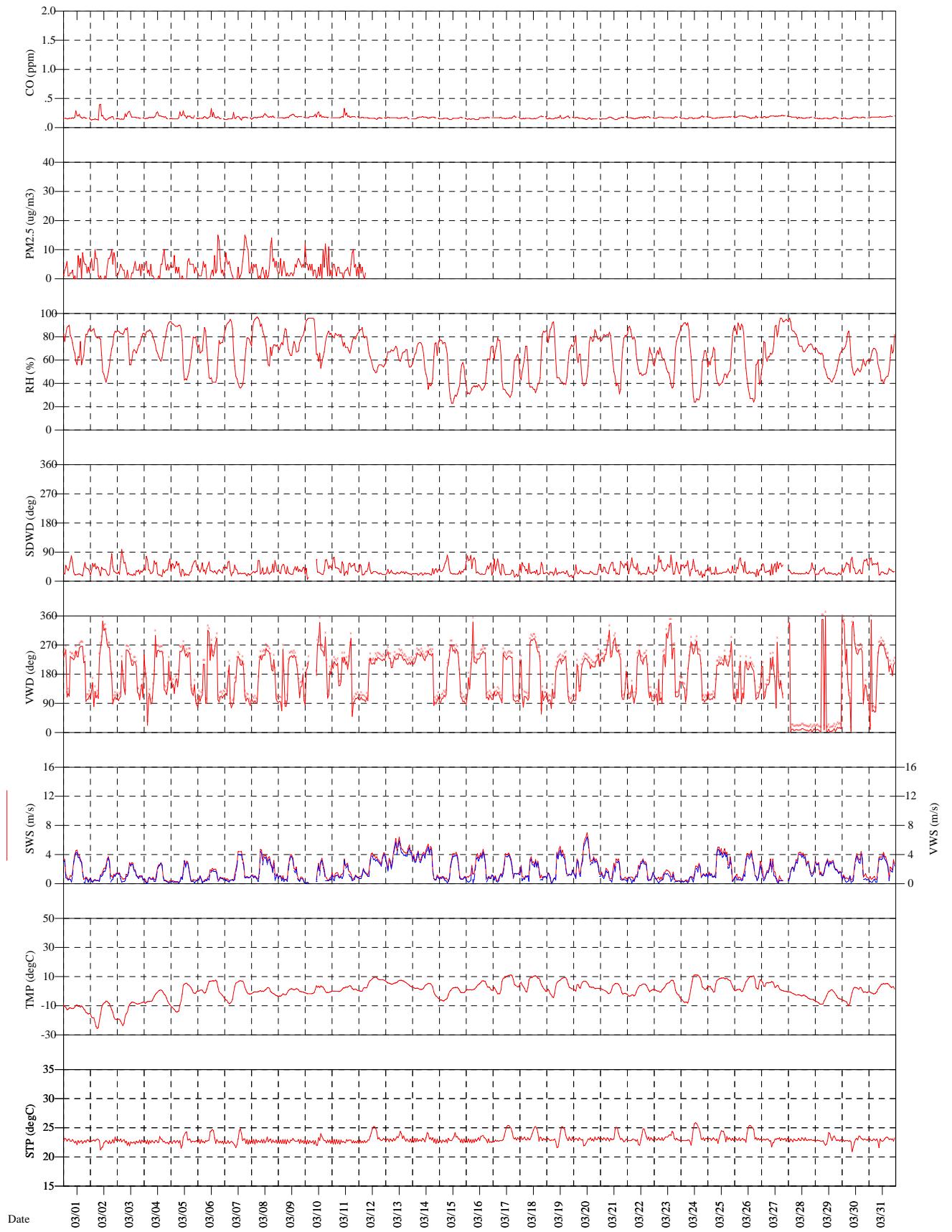


Figure 4-4. Time Series Plot for Old Faithful, March 2007.

4.3 METEOROLOGICAL DATA

Table 4-2 presents meteorological data summary statistics for the study period from the Old Faithful monitoring site, and Figure 4-5 presents a wind rose for the same period. Winds at the Old Faithful site were mixed with directions predominantly out of the southwest and east to east-southeast. The highest wind speeds were seen when the winds were coming from the southwest.

Table 4-2

Summary of Selected Meteorological Data				
Yellowstone National Park				
Old Faithful				
Final Validation				
12/15/2006 - 03/15/2007				
Parameter	Value	Units	Number	Std Dev
SCALAR WIND SPEED				
Average	1.5	m/s		
Maximum	8.2	m/s		
Percent calm = 17.83				
AMBIENT TEMPERATURE				
Average	-8.3	degC		
Maximum	9.7	degC		
Minimum	-38.5	degC		
RELATIVE HUMIDITY				
Average	78	percent		
Maximum	98	percent		
Minimum	23	percent		
PRECIPITATION (Rainfall or Snow melt)				
Average non-zero rate	NA			
Maximum non-zero rate				
Minimum non-zero rate				
Accumulated during period				
SOLAR RADIATION				
Average Daily Total	NA			
Maximum Daily Total	NA			
Minimum Daily Total	NA			

Note: Calms are included in the average scalar wind speed and are defined as winds less than 0.5 m/s (1.0 mph).

Solar radiation terms are based on the calculation of the total amount of solar energy incident on a unit area during each day. The maximum and minimum daily totals are selected from the list of daily totals.

The totals for all days are then added and divided by the number of days to yield the average daily total. Only days with 24 valid values are included in these statistics.

NA indicates instrument not available.

Yellowstone National Park
Old Faithful

Wind Rose

12/15/2006 - 03/15/2007

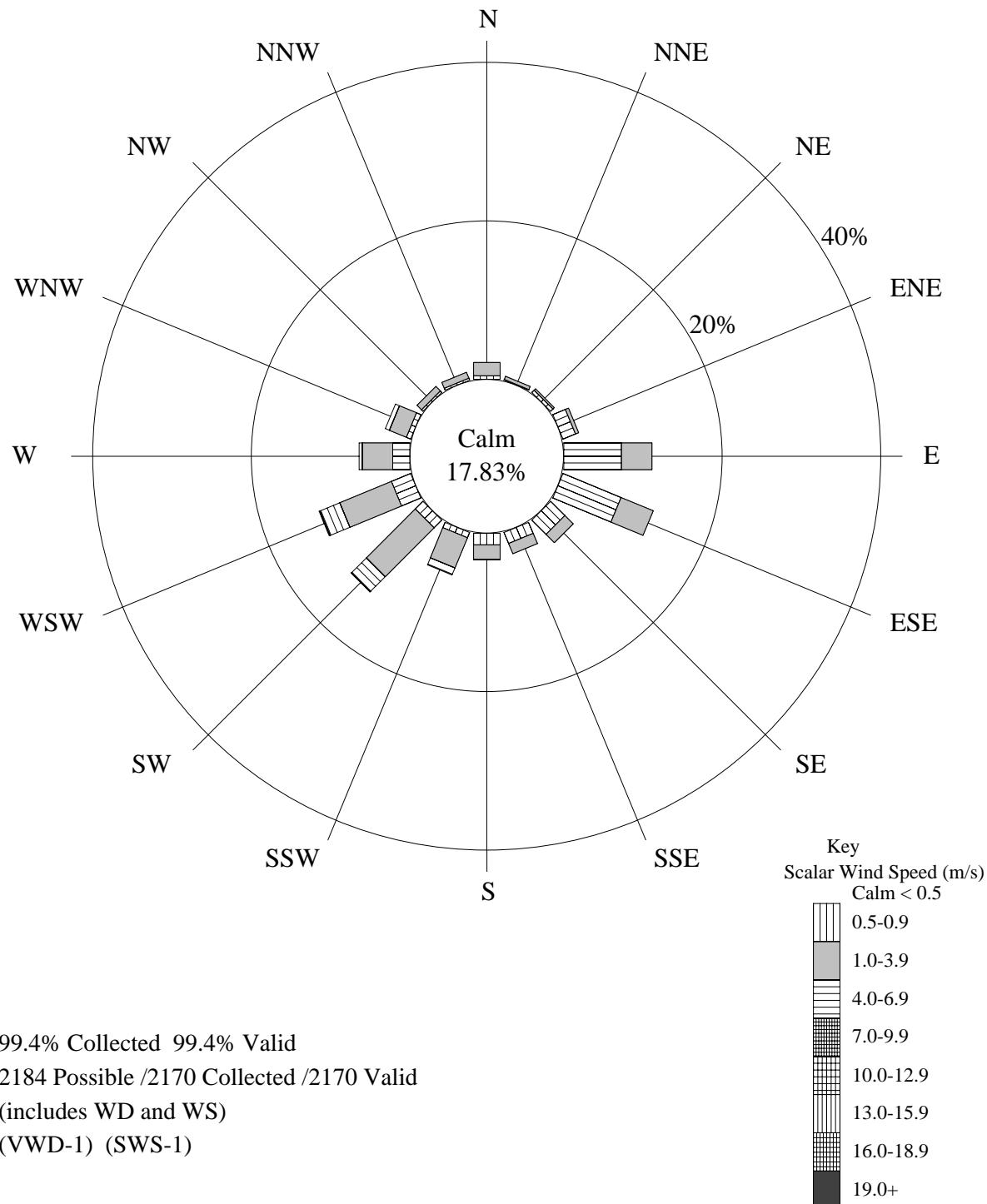


Figure 4-5. Wind Rose, Old Faithful.

4.4 AIR QUALITY DATA

4.4.1 Pollutant Roses

Carbon monoxide and BAM PM_{2.5} pollutant roses are presented in Figures 4-6 and 4-7. These pollutant roses, similar in shape to the wind roses presented in the previous section, graphically describe the wind direction and associated magnitude of each pollutant.

4.4.2 Comparison with National Ambient Air Quality Standards

Table 4-3 lists the five (5) highest 1-hour average daily carbon monoxide maximums and the five (5) highest non-overlapping 8-hour running averages for the Old Faithful site. Table 4-4 lists the five (5) highest 1-hour average daily maximums and the five highest 24-hour averages recorded for PM_{2.5} from the BAM.

Table 4-5 presents a comparison of the 2006-2007 study CO and PM_{2.5} data to the National Ambient Air Quality Standards (NAAQS). At no time during the study period did CO or PM_{2.5} approach their respective standards. The highest hourly CO value was 3% of the 1-hour standard and 4% of the 8-hour standard. The highest 24-hour average recorded for PM_{2.5} during the study period was 10% of the 24-hour standard.

Yellowstone National Park
Old Faithful

Pollutant Rose
Carbon Monoxide

12/15/2006 - 03/15/2007

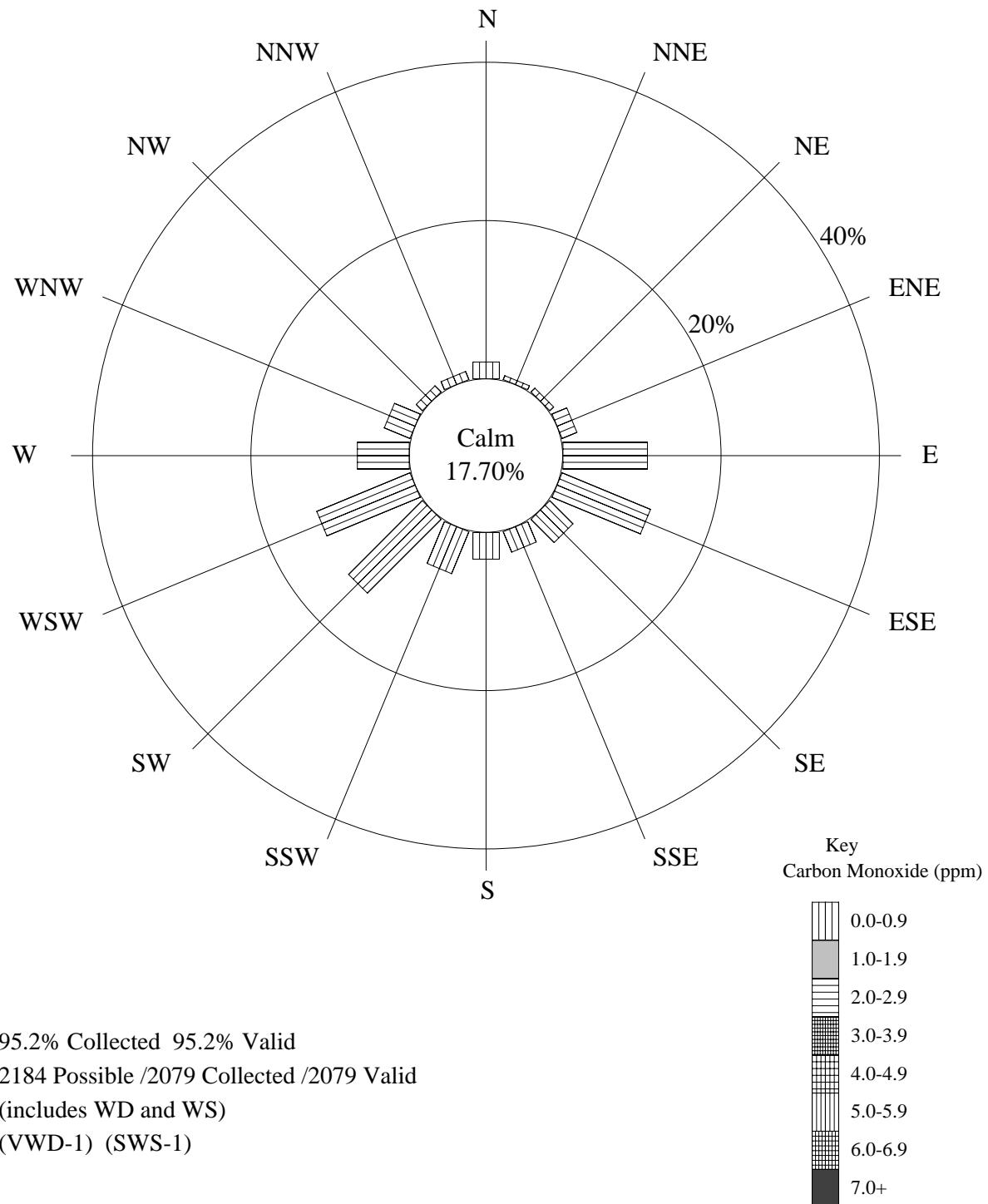


Figure 4-6. CO Pollutant Rose, Old Faithful.

Yellowstone National Park
Old Faithful

Pollutant Rose
PM2.5B

12/15/2006 - 03/15/2007

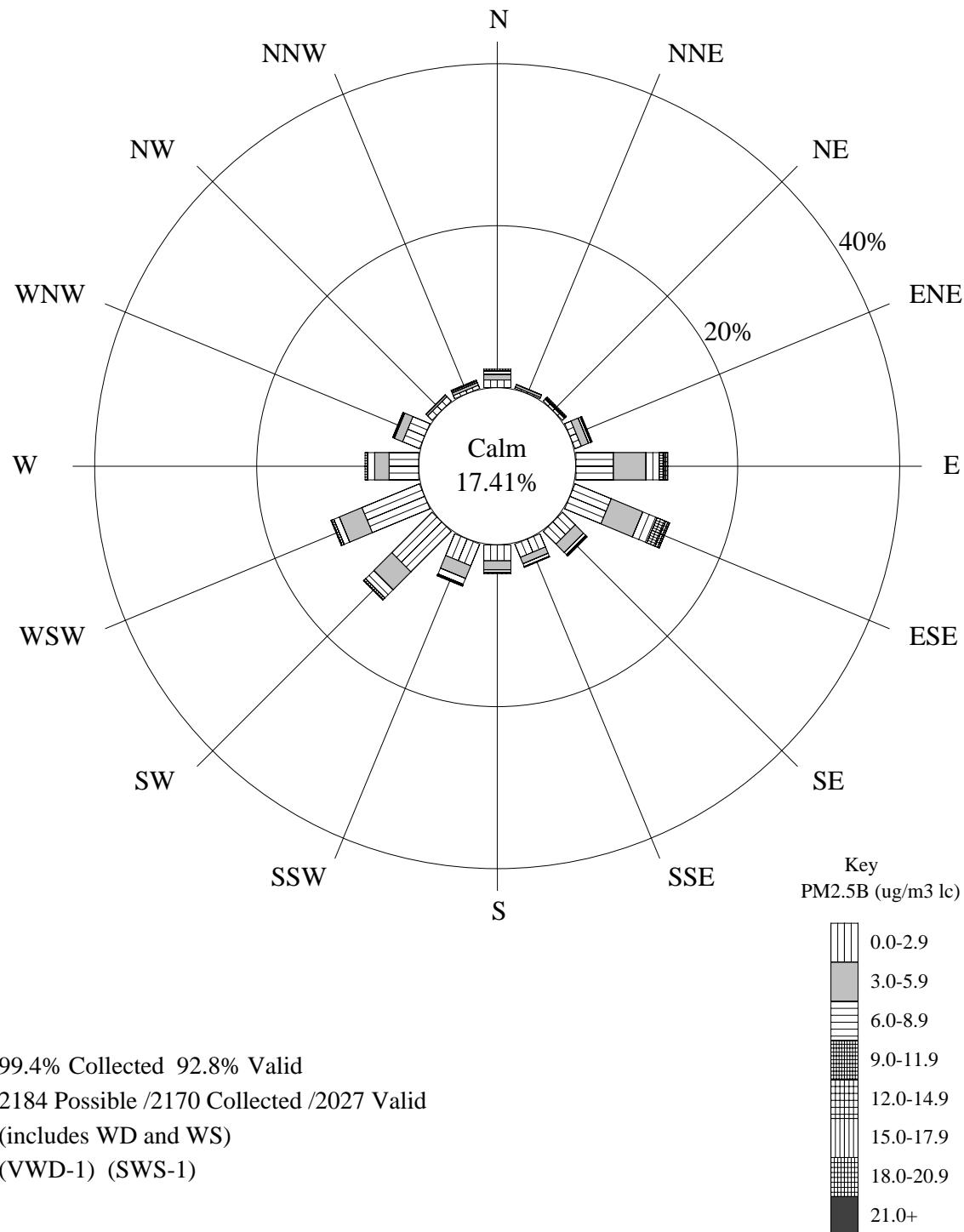


Figure 4-7. PM2.5 Pollutant Rose, Old Faithful.

Table 4-3

Carbon Monoxide
Five Highest 1-Hour and 8-Hour Average Concentrations
Yellowstone National Park – Winter Use Air Quality Monitoring Study

Site	Rank	1-Hour Average Daily Maximums			Highest 8-Hour Running Averages		
		Date	Hour	Concentration (ppm)	Date	Hour Ending	Concentration (ppm)
Old Faithful	1	12/29/06	15	0.9	12/20/06	13	0.4
	2	12/20/06	12	0.7	12/21/06	11	0.4
	3	1/13/07	8	0.6	12/29/06	17	0.4
	4	12/21/06	11	0.6	12/31/06	17	0.4
	5	12/22/06	12	0.5	1/13/07	15	0.4

Table 4-4

PM_{2.5}
Five Highest 1-Hour and 24-Hour Average Concentrations
Yellowstone National Park – Winter Use Air Quality Monitoring Study

Site	Rank	1-Hour Average Daily Maximums			Highest 24-Hour Averages		
		Date	Hour	Concentration (µg/m³)	Rank	Date	Concentration (µg/m³)
Old Faithful	1	1/17/07	18	20	1	1/17/07	6.6
	2	1/13/07	17	18	2	1/18/07	5.8
	3	1/27/07	18	17	3	1/11/07	5.1
	4	12/17/06	16	16	5	1/27/07	4.9
	5	2/3/07	0	16	5	2/3/07	4.8

Table 4-5

Comparison of CO and PM_{2.5} Study Results to NAAQS
Yellowstone National Park – Winter Use Air Quality Monitoring Study

Location	CO				PM _{2.5}		
	Max 1-hr avg (ppm)	Percent of Standard	Max 8-hr avg (ppm)	Percent of Standard	Max 1-hr avg (µg/m³)	Max 24-hr avg (µg/m³)	Percent of Standard
Old Faithful	0.9	3%	0.4	4%	20	6.6	10%
NAAQS	CO		CO			PM2.5	
1-hour	35		--			--	
8-hour	--		9			--	
24-hour	--		--			65	

4.5 DIGITAL PHOTOGRAPHS

Digital photographs were collected every 15 minutes during the study. Due to a low camera angle and distance from the snowmobile parking lot, it was not possible to count the actual number of snowmobiles in each photograph. Instead, the number of snowmobiles represented in the digital images collected for this study were coded using a coding scheme of 0-4. The codes used represent the following approximate counts:

0	No snowmobiles present
1	Parking lot ¼ full
2	Parking lot ½ full
3	Parking lot ¾ full
4	Full parking lot

Figure 4-8 represents a diurnal summary of the codes used. In this graph, the median code value used for each time of the day is plotted. The heaviest snowmobile use during the winter season occurred from 12:45-13:00. Appendix B contains a full listing of images collected and their respective snowmobile codes.

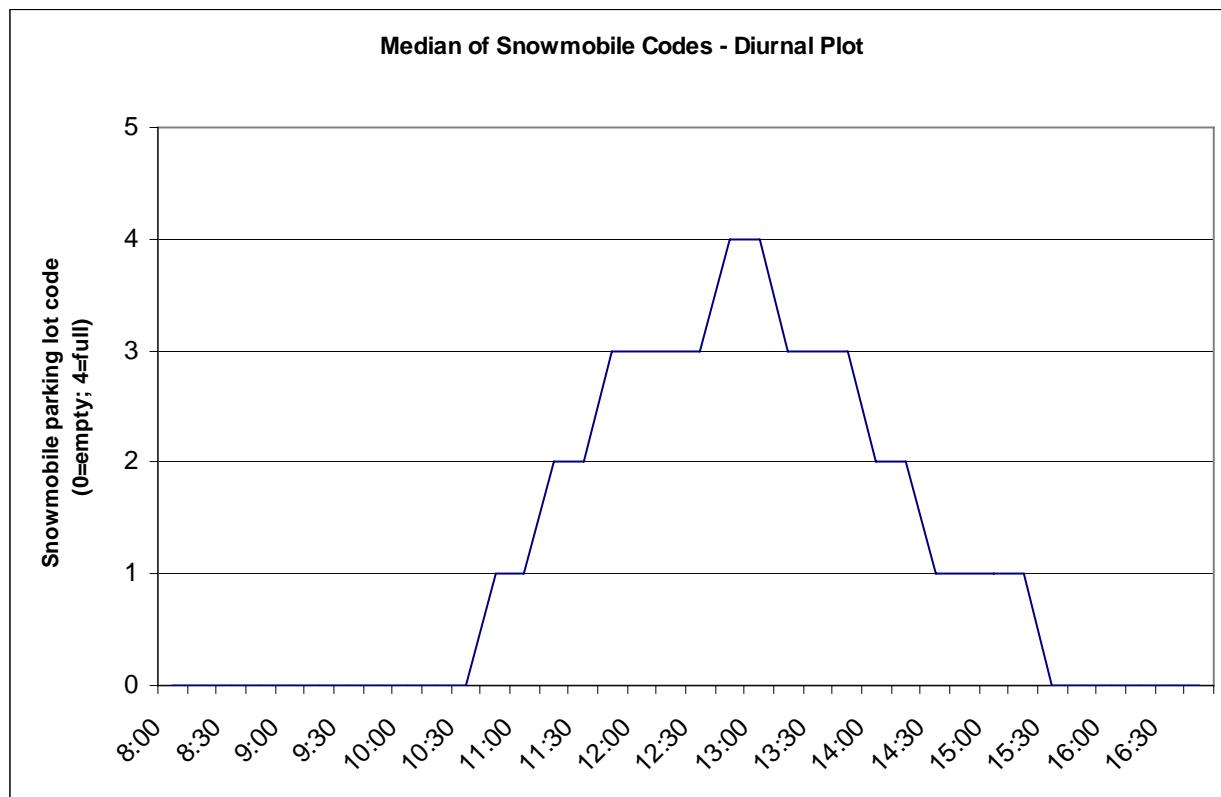


Figure 4-8. Diurnal Plot of Digital Image Codes.

4.6 DIURNAL PATTERNS OF AIR QUALITY PARAMETERS

Diurnal plots were generated for each air quality parameter by averaging all of the validated data for each hour of the day. Figure 4-9 presents diurnal patterns of CO data from the Old Faithful site for the 2006-2007 winter season. CO levels were highest during the daylight hours for the monitoring period. Figure 4-10 presents a diurnal pattern of PM_{2.5} concentrations at the Old Faithful site. PM_{2.5} levels were generally lowest in the late morning hours and highest during the evening.

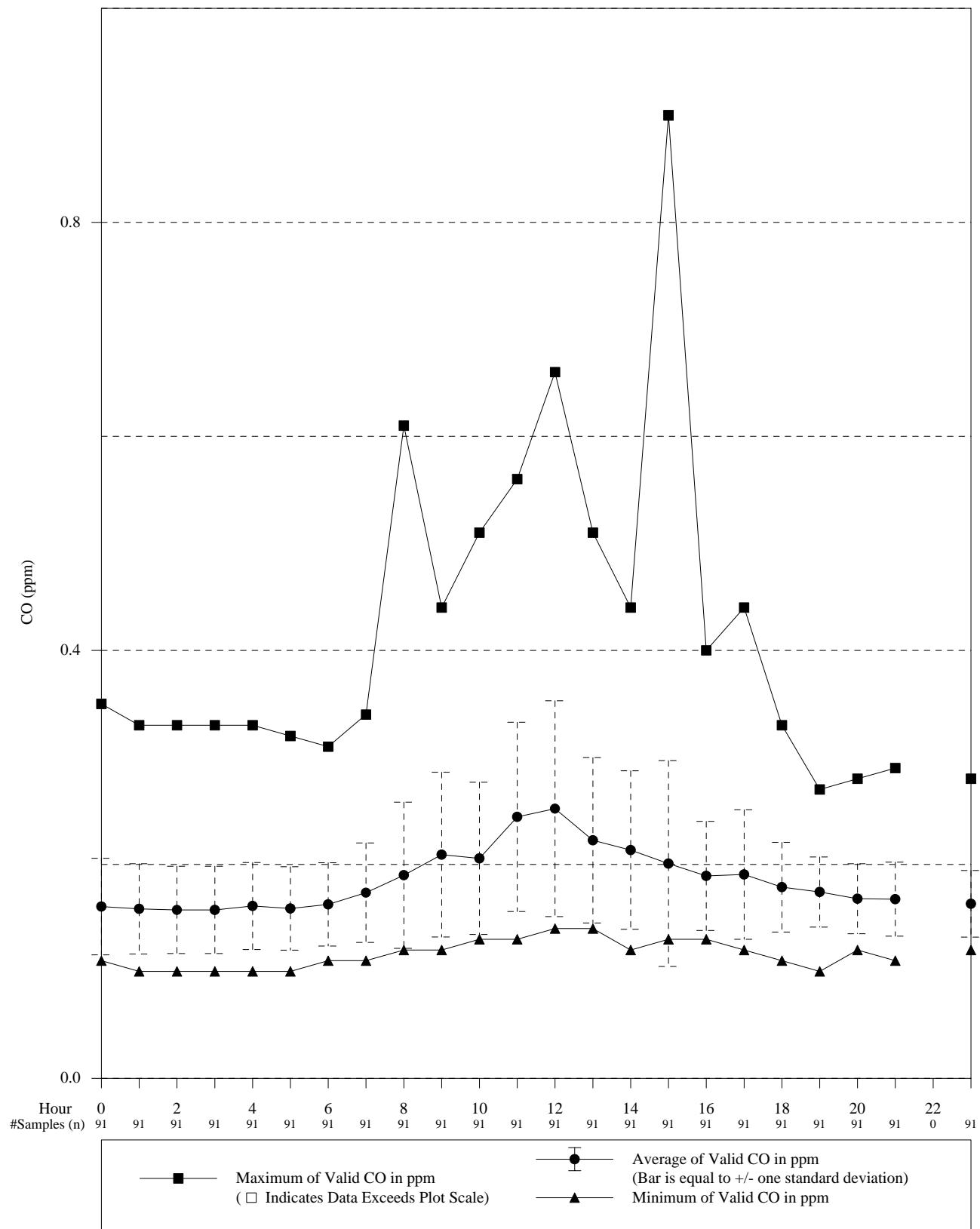


Figure 4-9. Old Faithful CO Diurnal Plots by Study Period.

Yellowstone National Park
Old Faithful

Diurnal Plot
PM2.5B

12/15/2006 - 03/15/2007

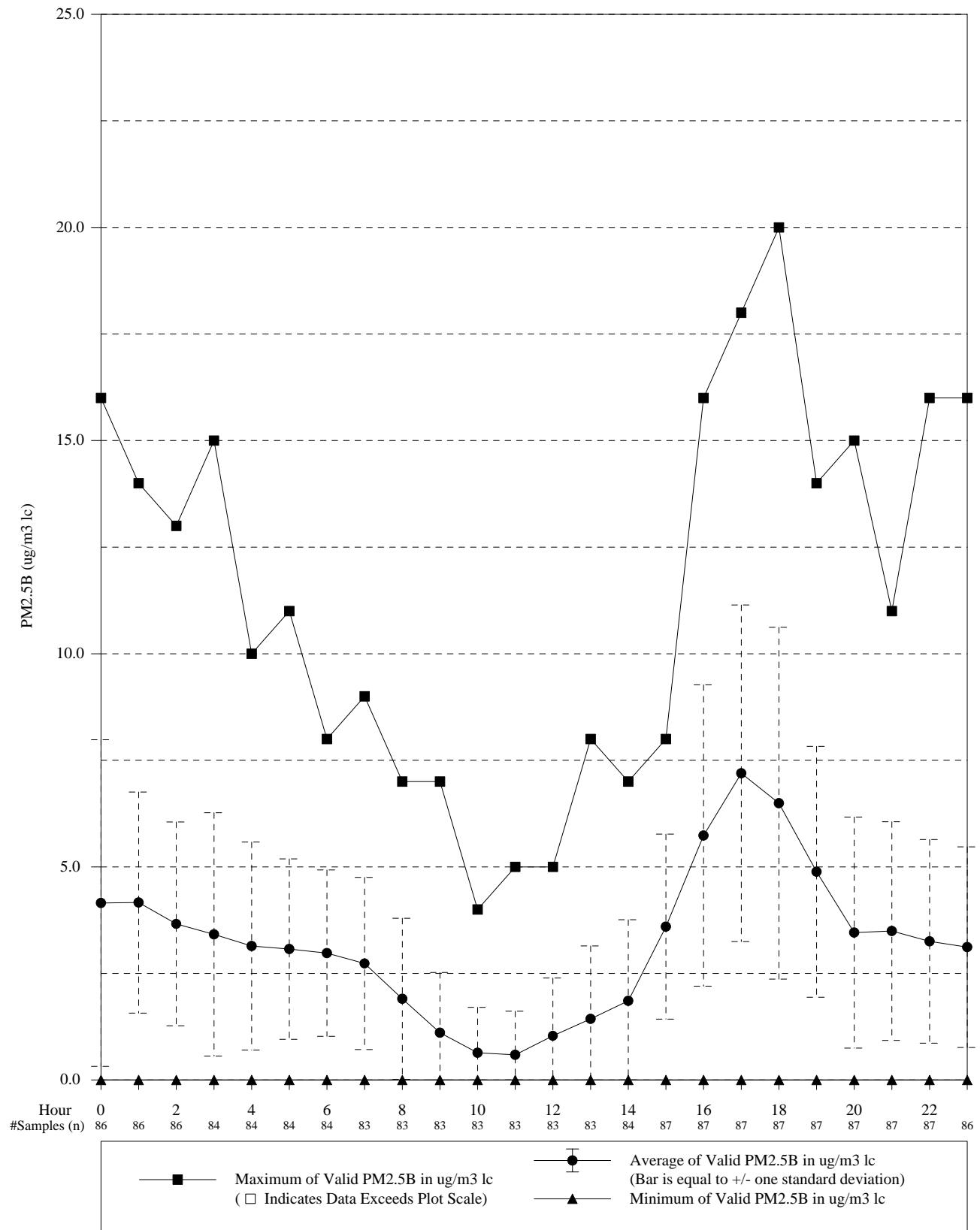


Figure 4-10. Old Faithful PM2.5 Diurnal Plots by Study Period.

APPENDIX A

Maintenance and Calibration



Calibration Summary

Network: NPS	Location: Old Faithful	Site: YELL-OF
Date: 10/26/06	Last Site Visit: 05/25/06	Field Specialist: Meisters, Dave

Parameter	Criteria	Accuracy Goal	Calibration Results					
			Pre-Maintenance		Post Maintenance		Mfg, Model # & Serial #	Value
CO Analyzer - 146C	Average Difference	average error	<= ± 5.0%	TECO 48C 71377-368	17.1%	FAIL		1.0%
	Maximum Difference	max error	<= ± 5.0%		26.4%	FAIL		2.6%
	Correlation	actual	r > 0.9950		0.9976	PASS		0.9974
	Intercept	actual	<= ± 3.0 ppb		0.9	PASS		-0.3
	Slope	actual	0.950 <= m <= 1.050		0.710	FAIL		1.024
Mass Flow Correlation	Low Cell (Dilution Air)	correlation coefficient	r >= 0.9995	Tylan AA00463029	N/A	N/A	Tylan AA00463029	0.9995
	High Cell (Gas)	correlation coefficient	r >= 0.9995	Tylan AC00463008	N/A	N/A	Tylan AC00463008	1.0000
Relative Humidity	PRE Sensor ID# Z1340124	max error	<= ± 5.0%	Vaisala HMP45C Z1340124	1.0%	PASS	Vaisala HMP45C Z4430016	1.0%
Temperature		max error	Climatronics <= ± 0.2° C; RM Young <= ± 0.5° C; Rotronics <= ± 1.0° C	Vaisala HMP45C Z1340124	0.0°	PASS	Vaisala HMP45C Z4430016	0.1°
Wind Direction	Alignment	max error	<= ± 5°	RM Young AQ 05305 50735	1°	PASS	RM Young AQ 05305 50735	
	Linearity	max error	<= ± 3°		2°	PASS		
	Starting Threshold	max error	Climatronics <= 6 g-cm; RM Young AQ <= 9 g-cm; RM Young MA <= 30 g-cm; RM Young RE <= 7 g-cm					
Wind Speed	max Wind Speed <5	max error	<= ± 0.2 m/s	RM Young AQ 05305 50735	N/A	N/A	RM Young AQ 05305 50735	N/A
	max Wind Speed >= 5	max error	<= ± 5%		0.6%	PASS		0.6%
	Starting Threshold	max error	Climatronics <= 0.2 g-cm; RM Young AQ <= 0.3 g-cm; RM Young MA <= 2.9 g-cm; RM Young RE <= 0.3 g-cm					



Calibration Standards

Field Specialist: Meisters, Dave
Operator: Gary Nelson
Network: NPS
Location: Old Faithful
Site: YELL-OF
Date: 10/26/2006
Last Site Visit: 5/25/2006

Parameter	Device	Manufacturer	Model	S/N	Calibration Date
Voltage	DVM	Fluke	187	82620065	9/14/2005
	Voltage Source	Calib. Inc.	DVC-350A		
Ozone	Transfer Standard	TECO	49CPS	70762-366	1/3/2006
Gas Dilution	Mass flow	ERT	Gas Dil		
Barometric Pressure	Barometer/Altimeter	AIR	AIR-HB-1A	0725	
High Flow	Dry cal	BIOS	DC2	H1461	1/4/2006
Low Flow	Dry cal	BIOS	DC2	L1646	1/4/2006
Precipitation	PPT Calibrator			76	8/15/2006
	Volume (ml):	936			
Relative Humidity	RH Sensor	Rhotronics	MP100C	80041	7/26/2006
Solar Radiation	Thermopile	LiCor	Pyranometer	PY43595	3/12/2006
Temperature	Digital Thermometer	Eutechnics	4400	303083	2/15/2006
Wind Direction	Torque Gauge	RM Young	18331	76	N/A
	Linearity Jig	RM Young	18212	76	N/A
	Compass	Brunton	5006LM	5041192259	N/A
Wind Speed	Torque Disk	RM Young	18310	76	N/A
	Anemometer Drive	RM Young	18801	76	1/20/2006
Volumetric Flow					

Comments:



GAS DILUTION CALIBRATOR CALIBRATION FORM

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 10/26/06	Date of Last Site Visit: 05/25/06
				Field Specialist: Meisters, Dave

High Flow Standard Reference: BIOS, DC2	High Flow Standard Reference S/N: H1461	Calibration Date: 01/04/06
Low Flow Standard Reference: BIOS, DC2	Low Flow Standard Reference S/N: L1646	Calibration Date: 01/04/06

Mass Flow Device (Dilution Air)		
Mfg: Tylan	S/N: AA00463029	Range: 0-100
Calibration Gas: CO		This primary standard automatically corrects to standard flow.

FLOW METER DATA

Calibration Point	Display (y)	Flow SCCPM (x)
1	20	19.94
2	35	34.7
3	50	50.25
4	65	65.4
5	80	79.6
6	95	97.6

Linear Regression		
Parameter	Air Flow Controller	Pass/Fail
Slope (m)	0.974685	N/A
Y Intercept (b)	1.051112	N/A
Correlation Coefficient (r)	0.999549	PASS

Display Volts = (Flow SCCPM * m) + b

Flow SCCPM = (Display Volts - b) / m

Mass Flow Device (Gas 1)

Mfg: Tylan	S/N: AC00463008	Range: 0 to 10L
Calibration Gas: Air		This primary standard automatically corrects to standard flow.

FLOW METER DATA

Calibration Point	Display (y)	Flow SCCPM (x)
1	1.198	1.172
2	2.001	1.992
3	3.502	3.498
4	5.004	5.009
5	7.501	7.513
6	9.016	9.053

Linear Regression		
Parameter	Gas Flow Controller	Pass/Fail
Slope (m)	0.993417	N/A
Y Intercept (b)	0.028480	N/A
Correlation Coefficient (r)	0.999998	PASS

Display Volts = (Flow SCCPM * m) + b

Flow SCCPM = (Display Volts - b) / m

MFC/MFM Comments:	
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**CARBON MONOXIDE ANALYZER
CALIBRATION FORM
(146C Calculations)**

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 10/26/06	Date of Last Site Visit: 05/25/06
				Field Specialist: Meisters, Dave

EQUIPMENT IDENTIFICATION

	Transfer Standard	Analyzer	Station Reference
Mfg.		TECO	TECO
Model #		48C	146C
Serial #		71377-368	68497-360

REFERENCE GAS

Tank S/N	CC677
Calibration Date	9/7/2008
Pressure Tank / Del.	1750 / 20
Tank Conc. (ppm)	3060

FLOW METER DATA

	Dilution Air	Gas
Slope (m)	0.975	0.993
Y Intercept (b)	1.1	0.0
Correlation Coefficient (r)	0.9995	1.0000

STATION TUBING

		CALCULATED FLOW		FLOW METER		PRE-MAINTENANCE				
		146C				CO Bkg. (zero) = CO Coef. (span) =				
Calibration Point	Conc. (ppm)	Dil. Air (cc/min)	Gas (cc/min)	Dil. Air Inst. Dis.	Gas Inst. Dis.	DVM (volts)	DAS (ppm)	Recorder (%)	Difference (ppm)	% Difference
ZERO	0.000	2997	0.0			0.029	0.551			
1	18.010	4067	29.4				13.260		-4.750	-26.4%
2	15.510	4972	25.3			0.611	12.180		-3.330	-21.5%
3	10.000	4982	16.4			0.419	8.300		-1.700	-17.0%
4	7.997	6984	18.3			0.336	6.748		-1.249	-15.6%
5	4.743	4000	6.2			0.224	4.512		-0.231	-4.9%
ZERO										
						Average ABS % Difference:		17.1%	FAIL	
						Maximum ABS % Difference:		26.4%	FAIL	

STATION TUBING

		POST MAINTENANCE				
		CO Bkg. (zero) = CO Coef. (span) =				
Calibration Point	Conc. (ppm)	DVM (volts)	DAS (ppm)	Recorder (%)	Difference (ppm)	% Difference
ZERO	0.000	0.002	0.046			
1	17.970	0.897	17.950		-0.020	-0.1%
2	15.480	0.784	15.660		0.180	1.2%
3	9.985	0.511	10.240		0.255	2.6%
4	7.993	0.405	8.070		0.077	1.0%
5	3.570	0.195	3.580		0.010	0.2%
ZERO	0.000	0.000				
					Average ABS % Difference:	1.0%
					Maximum ABS % Difference:	2.6%
						PASS

RESULTS

Linear Regression			
	PRE		POST
Parameter	Analyzer	Pass/Fail	Analyzer
Slope	0.710	FAIL	1.024
Y Intercept	0.9	PASS	-0.3
Correlation Coefficient	0.9976	PASS	0.9974
			PASS

CALIBRATION TIME

From:	To:
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EVENT RESPONSE

	Calculated Flow		Flow Meter		Analyzer Response				
Calibration Point	Conc. (ppm)	Dil. Air (cc/min)	Gas (cc/min)	Dil. Air (cc/min)	Gas (cc/min)	DVM (volts)	DAS (ppm)	Recorder (%)	Difference (ppm)
ZERO	0.000								N/A
Precision									
Span									

Pre-Maint Carbon Monoxide Comments:	COEF=.858, BKG=7.701
Post Maint Carbon Monoxide Comments:	COEF=.997, BKG=7.9

TEMPERATURE, DELTA TEMPERATURE AND RELATIVE HUMIDITY CALIBRATION FORM

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 10/26/06	Date of Last Site Visit: 05/25/06
				Field Specialist: Meisters, Dave

Reference Thermometer S/N: 303083	Calibration Date: 02/15/06
Relative Humidity Reference S/N: 80041	Calibration Date: 07/26/06

TEMPERATURE / DELTA TEMPERATURE

SENSOR IDENTIFICATION

	Pre-Maintenance	Post Maintenance
Mfg.	Vaisala	Vaisala
Model #	HMP45C	HMP45C
Temperature Serial #	Z1340124	Z4430016
Delta Temp. Serial #	N/A	N/A
Translator Serial #	N/A	N/A

PRE-MAINTENANCE SENSOR RESPONSE

BATH TEMP (° C)	TEMPERATURE		Difference (° C)	Pass/Fail	Δ TEMPERATURE		Difference (° C)	Pass/Fail
	DVM (volts)	DAS (° C)			DVM (volts)	DAS (° C)		
-1.0		-1.0	0.0	PASS				
	Maximum Difference:	0.0	PASS	Maximum Difference:				

PRE- TRANSLATOR CARD RESPONSE

SETTING	TEMPERATURE		Δ TEMPERATURE	
	DVM (volts)	DAS (° C)	DVM (volts)	DAS (° C)
Zero				
Span				

POST MAINTENANCE SENSOR RESPONSE

BATH TEMP (° C)	TEMPERATURE		Difference (° C)	Pass/Fail	Δ TEMPERATURE		Difference (° C)	Pass/Fail
	DVM (volts)	DAS (° C)			DVM (volts)	DAS (° C)		
2.3		2.4	0.1	PASS				
	Maximum Difference:	0.1	PASS	Maximum Difference:				

POST TRANSLATOR CARD RESPONSE

SETTING	TEMPERATURE		Δ TEMPERATURE	
	DVM (volts)	DAS (° C)	DVM (volts)	DAS (° C)
Zero				
Span				

Pre-Maint Temperature Comments:	Non-submersable probe
Post Maint Temperature Comments:	

RELATIVE HUMIDITY

SENSOR IDENTIFICATION

	Pre-Maintenance	Post Maintenance
Mfg.	Vaisala	Vaisala
Model #	HMP45C	HMP45C
Serial #	Z1340124	Z4430016

PRE-MAINTENANCE SENSOR RESPONSE

HOUR	DAS	T.STD	Difference	Pass/Fail
10:00				
11:00				
12:00	50.0	49.0	1.0%	PASS
13:00				
14:00				
15:00				
Average ABS % Difference:		1.0%		PASS
Maximum % Difference:		1.0%		PASS

POST MAINTENANCE SENSOR RESPONSE

HOUR	DAS	T.STD	Difference	Pass/Fail
10:00				
11:00				
12:00				
13:00				
14:00				
15:00	58.0	59.0	-1.0%	PASS
Average ABS % Difference:		1.0%		PASS
Maximum % Difference:		1.0%		PASS

Screen dirty/clogged on RH pre-maintenance sensor? (check one):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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Pre-Maint Relative Humidity Comments:	
Post Maint Relative Humidity Comments:	Replaced sensor.



WIND DIRECTION CALIBRATION FORM

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 10/26/06	Date of Last Site Visit: 05/25/06
				Field Specialist: Meisters, Dave
To Landmark #1: 9 Degrees True	From Landmark #1: 189	LM Description: Vent pipe at Lodge		
To Landmark #2: 287 Degrees True	From Landmark #2: 107	LM Description: Warming Hut Power pole		
Declination: Degrees				
Wind Direction Reference S/N: 5041192259		Calibration Date: N/A		

WIND DIRECTION

SENSOR IDENTIFICATION

	PRE-MAINTENANCE	POST MAINTENANCE
Mfg.	RM Young AQ	RM Young AQ
Model #	05305	05305
Serial #	50735	50735
Translator Serial #	RYM	RYM

WIND DIRECTION ALIGNMENT

Land Mark Reference	PRE-MAINTENANCE				POST MAINTENANCE			
	DVM (volts)	DAS (degrees)	Degrees Difference	Pass/Fail	DVM (volts)	DAS (degrees)	Degrees Difference	Pass/Fail
To 1		8	-1	PASS				
From 1		189	0	PASS				
To 2		288	1	PASS				
From 2		107	0	PASS				
Average Difference:				1	PASS	Average Difference:		
Maximum Difference:				1	PASS	Maximum Difference:		

WIND DIRECTION TRANSLATOR CARD

Card Setting	PRE		POST	
	DVM (volts)	DAS (m/s)	DVM (volts)	DAS (m/s)
Zero				
Span				
360				
Oscillator Frequency (Hz) =		Data Logger Should Read		

WIND DIRECTION LINEARITY

Check Point	PRE-MAINTENANCE				POST MAINTENANCE			
	DVM (volts)	DAS (degrees)	Degrees Difference	Pass/Fail	DVM (volts)	DAS (degrees)	Degrees Difference	Pass/Fail
1		46	-1	PASS				
2		90	-1	PASS				
3		135	0	PASS				
4		180	0	PASS				
5		225	0	PASS				
6		269	-1	PASS				
7		315	1	PASS				
8		2	2	PASS				
Average Difference:				1	PASS	Average Difference:		
Maximum Difference:				2	PASS	Maximum Difference:		

Pre-Maint Wind Direction Comments:	
Post Maint Wind Direction Comments:	No service to the verticle shaft.



WIND SPEED CALIBRATION FORM

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 10/26/06	Date of Last Site Visit: 05/25/06
				Field Specialist: Meisters, Dave

Wind Speed Reference S/N: 76	Calibration Date: 01/20/06
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WIND SPEED		WIND SPEED TRANSLATOR CARD						
SENSOR IDENTIFICATION				PRE		POST		
	PRE-MAINTENANCE		POST MAINTENANCE		DVM (volts)	DAS (m/s)	DVM (volts)	DAS (m/s)
Mfg.	RM Young AQ		RM Young AQ		Zero			
Model #	05305		05305		Span			
Serial #	50735		50735		Oscillator Frequency (Hz) =		Data Logger Should Read	
Translator Serial #	RMY		RMY					

WIND SPEED STARTING THRESHOLD

PRE		POST	
Torque gm-cm	Pass/Fail	Torque gm-cm	Pass/Fail

Wind speed starting threshold accuracy goal:
RM Young AQ <= 0.3 g-cm

Motor Speed (rpm)	WIND SPEED PRE-MAINTENANCE					WIND SPEED POST MAINTENANCE								
	Climatronics (m/s)	RM Young (m/s)	Met One	DVM (volts)	DAS (m/s)	Difference (m/s)	% Difference	Pass/Fail	DVM (volts)	DAS (m/s)	Difference (m/s)	% Difference	Pass/Fail	
100	2.574	0.510	0.45											
300	7.274	1.540	8.45		1.520	-0.020		PASS		1.500	-0.040			PASS
600	14.324	3.070	16.44											
900	21.375	4.610	24.44		4.600	-0.010		PASS		4.600	-0.010			PASS
1200	28.425	6.140	N/A		6.120	-0.020	-0.3%	PASS		6.120	-0.020	-0.3%		PASS
1800	42.526	9.220	48.44		9.180	-0.040	-0.4%	PASS		9.180	-0.040	-0.4%		PASS
4000	N/A	20.480	N/A		20.460	-0.020	-0.1%	PASS		20.460	-0.020	-0.1%		PASS
7000	N/A	35.840	N/A		35.630	-0.210	-0.6%	PASS		35.630	-0.210	-0.6%		PASS
Maximum ABS Difference (use if Wind Speed <5):					0.210					0.210				
Maximum ABS % Difference (use if Wind Speed >=5):						0.6%	PASS				0.6%	PASS		

Pre-Maint Wind Speed Comments:	
Post Maint Wind Speed Comments:	Replaced the horizontal shaft bearing.



Calibration Summary

Network: NPS	Location: Old Faithful	Site: YELL-OF
Date: 05/23/07	Last Site Visit: 10/26/06	Field Specialist: Faust, John

Parameter	Criteria	Accuracy Goal	Calibration Results					
			Pre-Maintenance			Post Maintenance		
			Mfg, Model # & Serial #	Value	Pass/Fail	Mfg, Model # & Serial #	Value	Pass/Fail
CO Analyzer - 146C	Average Difference	average error	TECO 48C 48C-71377-368	9.5%	FAIL	TECO 48C 48C-71377-368	1.7%	PASS
	Maximum Difference	max error		14.6%	FAIL		4.9%	PASS
	Correlation	actual		0.9953	PASS		0.9999	PASS
	Intercept	actual		0.3	PASS		0.1	PASS
	Slope	actual		1.034	PASS		0.981	PASS
Mass Flow Correlation	Low Cell (Dilution Air)	correlation coefficient		N/A	N/A			
	High Cell (Gas)	correlation coefficient		N/A	N/A			
Relative Humidity	PRE Sensor ID# Z430016	max error	<= ± 5.0%	Vaisala HMP45C Z430016	3.0%	PASS	Vaisala HMP45C Z1050068	1.0% PASS
Temperature		max error	Climatronics <= ± 0.2° C; RM Young <= ± 0.5° C; Rotronics <= ± 1.0° C	Vaisala HMP45C Z430016	0.8°	PASS	Vaisala HMP45C Z1050068	0.3° PASS
Wind Direction	Alignment	max error	<= ± 5°	RM Young AQ 05305 50735	4°	PASS	RM Young AQ 05305 19677	4° PASS
	Linearity	max error	<= ± 3°		3°	PASS		3° PASS
	Starting Threshold	max error	Climatronics <= 6 g-cm; RM Young AQ <= 9 g-cm; RM Young MA <= 30 g-cm; RM Young RE <= 7 g-cm					
Wind Speed	max Wind Speed <5	max error	<= ± 0.2 m/s	RM Young AQ 05305 50735	N/A	N/A	RM Young AQ 05305 19677	N/A N/A
	max Wind Speed >= 5	max error	<= ± 5%		0.1%	PASS		0.0% PASS
	Starting Threshold	max error	Climatronics <= 0.2 g-cm; RM Young AQ <= 0.3 g-cm; RM Young MA <= 2.9 g-cm; RM Young RE <= 0.3 g-cm					



Calibration Standards

Field Specialist: Faust, John
Operator: Gary Nelson
Network: NPS
Location: Old Faithful
Site: YELL-OF
Date: 5/23/2007
Last Site Visit: 10/26/2006

Latitude: _____
Longitude: _____
Elevation: _____

Parameter	Device	Manufacturer	Model	S/N	Calibration Date
Voltage	DVM	Fluke	189	79390171	9/14/2002
	Voltage Source	Calib. Inc.	DVC-350A		
Ozone	Transfer Standard	TECO	49C	49C-66829-354	5/4/2007
Gas Dilution	Mass flow	ERT	Gas Dil		
Barometric Pressure		AIRS			
High Flow	Dry cal	BIOS	DC2	H 740	
Low Flow	Dry cal	BIOS	DC2	L 961	
Precipitation	PPT Calibrator	NovaLynx	260-2595	LYNX-01	11/20/2002
	Volume (ml):	936			
Relative Humidity	RH Sensor	Rotronic	HygroPalm 2	28052 058	3/11/2005
Solar Radiation	Thermopile	LiCor	Pyranometer	PY12080	
	Multiplier	97.56			
Temperature	Digital Thermometer	Rotronic	HygroPalm 2	28052 058	3/11/2005
Wind Direction	Torque Gauge	RM Young	18331	2909	
	Linearity Jig	RM Young	18212	2909	
	Compass	Brunton	5006LM	5040392346	
Wind Speed	Torque Disk	RM Young		2909	
	Anemometer Drive	RM Young	18802	CA 02241	
Volumetric Flow					

Comments:



GAS DILUTION CALIBRATOR CALIBRATION FORM

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 05/23/07	Date of Last Site Visit: 10/26/06
				Field Specialist: Faust, John

High Flow Standard Reference: BIOS, DC2	High Flow Standard Reference S/N: H 740	Calibration Date:
Low Flow Standard Reference: BIOS, DC2	Low Flow Standard Reference S/N: L 961	Calibration Date:

Mass Flow Device (Dilution Air)

Mfg:	S/N:	Range:
Calibration Gas:	This primary standard automatically corrects to standard flow.	

FLOW METER DATA

Calibration Point	Display (y)	Flow SCCPM (x)
1		
2		
3		
4		
5		
6		

Linear Regression		
Parameter	Air Flow Controller	Pass/Fail
Slope (m)		N/A
Y Intercept (b)		N/A
Correlation Coefficient (r)		

Display Volts = (Flow SCCPM * m) + b

Flow SCCPM = (Display Volts - b) / m

Mass Flow Device (Gas 1)

Mfg:	S/N:	Range:
Calibration Gas:	This primary standard automatically corrects to standard flow.	

FLOW METER DATA

Calibration Point	Display (y)	Flow SCCPM (x)
1		
2		
3		
4		
5		
6		

Linear Regression		
Parameter	Gas Flow Controller	Pass/Fail
Slope (m)		N/A
Y Intercept (b)		N/A
Correlation Coefficient (r)		

Display Volts = (Flow SCCPM * m) + b

Flow SCCPM = (Display Volts - b) / m

MFC/MFM Comments:	Calibration of 146C completed but cal data lost due to Excel Error.
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**CARBON MONOXIDE ANALYZER
CALIBRATION FORM
(146C Calculations)**

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 05/23/07	Date of Last Site Visit: 10/26/06
				Field Specialist: Faust, John

EQUIPMENT IDENTIFICATION

	Transfer Standard	Analyzer	Station Reference
Mfg.		TECO	TECO
Model #		48C	146C
Serial #		48C-71377-368	146C-68497-360

FLOW METER DATA

	Dilution Air	Gas	Tank S/N	CC677
Slope (m)			Calibration Date	9/8/2005
Y Intercept (b)			Pressure Tank / Del.	1650/20
Correlation Coefficient (r)			Tank Conc. (ppm)	3060

STATION TUBING

		CALCULATED FLOW		FLOW METER		PRE-MAINTENANCE					
		146C				CO Bkg. (zero) =	CO Coef. (span) =				
Calibration Point	Conc. (ppm)	Dil. Air (cc/min)	Gas (cc/min)	Dil. Air Inst. Dis.	Gas Inst. Dis.	DVM (volts)	DAS (ppm)	Recorder (%)	Difference (ppm)	% Difference	Pass/Fail
ZERO	0.000	3000	0.0			0.098	-0.294				
1	3.614	4992	5.9			0.317	4.142		0.528	14.6%	FAIL
2	7.978	6993	18.3			0.542	8.832		0.854	10.7%	FAIL
3	9.985	4991	16.3			0.664	11.070		1.085	10.9%	FAIL
4	15.470	4979	25.3			0.960	17.040		1.570	10.1%	FAIL
5	17.980	4972	29.4			0.992	17.800		-0.180	-1.0%	PASS
ZERO	0.000	3000	0.0				-0.289		-0.289		
Average ABS % Difference:									9.5%	FAIL	
Maximum ABS % Difference:									14.6%	FAIL	

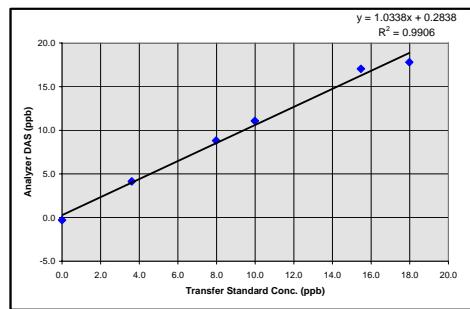
RESULTS

		Linear Regression			
		PRE		POST	
Parameter		Analyzer	Pass/Fail	Analyzer	Pass/Fail
Slope		1.034	PASS	0.981	PASS
Y Intercept		0.3	PASS	0.1	PASS
Correlation Coefficient		0.9953	PASS	0.9999	PASS

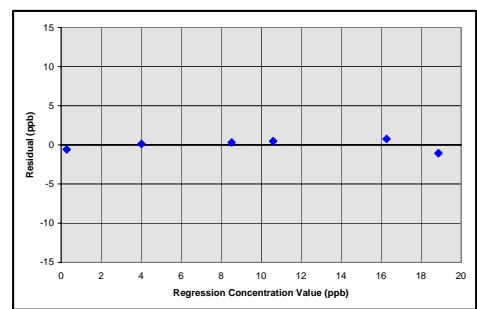
STATION TUBING

		POST MAINTENANCE					
Calibration Point	Conc. (ppm)	DVM (volts)	DAS (ppm)	Recorder (%)	Difference (ppm)	% Difference	Pass/Fail
ZERO	0.000	0.020	0.010				
1	3.614	0.209	3.790		0.176	4.9%	PASS
2	7.978	0.409	7.921		-0.057	-0.7%	PASS
3	9.985	0.511	9.918		-0.067	-0.7%	PASS
4	15.470	0.775	15.350		-0.120	-0.8%	PASS
5	17.980	0.892	17.690		-0.290	-1.6%	PASS
ZERO	0.000	0.020	0.013				
Average ABS % Difference:						1.7%	PASS
Maximum ABS % Difference:						4.9%	PASS

LINEAR REGRESSION PLOT (PRE-MAINTENANCE)



RESIDUALS PLOT (PRE-MAINTENANCE)



CALIBRATION TIME

From:	To:
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EVENT RESPONSE

		Calculated Flow		Flow Meter		Analyzer Response				
Calibration Point	Conc. (ppm)	Dil. Air (cc/min)	Gas (cc/min)	Dil. Air (cc/min)	Gas (cc/min)	DVM	DAS (ppm)	Recorder (%)	Difference (ppm)	% Difference
ZERO	0.000						0.050			N/A
Precision	3.600						3.815		0.215	5.97%
Span	18.000						17.600		-0.400	-2.22%

Pre-Maint Carbon Monoxide Comments:	
Post Maint Carbon Monoxide Comments:	CO analyzer CO Bkg is above limit. Should change this instrument before next winter.



TEMPERATURE, DELTA TEMPERATURE AND RELATIVE HUMIDITY CALIBRATION FORM

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 05/23/07	Date of Last Site Visit: 10/26/06
				Field Specialist: Faust, John

Reference Thermometer S/N: 28052 058		Calibration Date: 03/11/05
Relative Humidity Reference S/N: 28052 058		Calibration Date: 03/11/05

TEMPERATURE / DELTA TEMPERATURE

SENSOR IDENTIFICATION

	Pre-Maintenance	Post Maintenance
Mfg.	Vaisala	Vaisala
Model #	HMP45C	HMP45C
Temperature Serial #	Z430016	Z1050068
Delta Temp. Serial #		
Translator Serial #		

PRE-MAINTENANCE SENSOR RESPONSE

BATH TEMP (° C)	TEMPERATURE		Difference (° C)	Pass/Fail	Δ TEMPERATURE		Difference (° C)	Pass/Fail
	DVM (volts)	DAS (° C)			DVM (volts)	DAS (° C)		
6.6		5.8	-0.8	PASS				
Maximum Difference:		0.8	PASS	Maximum Difference:				

PRE- TRANSLATOR CARD RESPONSE

SETTING	TEMPERATURE		Δ TEMPERATURE	
	DVM (volts)	DAS (° C)	DVM (volts)	DAS (° C)
Zero				
Span				

POST MAINTENANCE SENSOR RESPONSE

BATH TEMP (° C)	TEMPERATURE		Difference (° C)	Pass/Fail	Δ TEMPERATURE		Difference (° C)	Pass/Fail
	DVM (volts)	DAS (° C)			DVM (volts)	DAS (° C)		
6.6		6.9	0.3	PASS				
Maximum Difference:		0.3	PASS	Maximum Difference:				

POST TRANSLATOR CARD RESPONSE

SETTING	TEMPERATURE		Δ TEMPERATURE	
	DVM (volts)	DAS (° C)	DVM (volts)	DAS (° C)
Zero				
Span				

Pre-Maint Temperature Comments:

Post Maint Temperature Comments:

RELATIVE HUMIDITY

SENSOR IDENTIFICATION

	Pre-Maintenance	Post Maintenance
Mfg.	Vaisala	Vaisala
Model #	HMP45C	HMP45C
Serial #	Z430016	Z1050068

PRE-MAINTENANCE SENSOR RESPONSE

HOUR	DAS	T.STD	Difference	Pass/Fail
15:00	40.0	37.0	3.0%	PASS
16:00				
17:00				
18:00				
19:00				
20:00				
Average ABS % Difference:			3.0%	PASS
Maximum % Difference:			3.0%	PASS

POST MAINTENANCE SENSOR RESPONSE

HOUR	DAS	T.STD	Difference	Pass/Fail
16:00	30.0	31.0	-1.0%	PASS
17:00				
18:00				
19:00				
20:00				
21:00				
Average ABS % Difference:			1.0%	PASS
Maximum % Difference:			1.0%	PASS

Screen dirty/clogged on RH pre-maintenance sensor? (check one): Yes No

Pre-Maint Relative Humidity Comments:

Post Maint Relative Humidity Comments:



WIND DIRECTION CALIBRATION FORM

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 05/23/07	Date of Last Site Visit: 10/26/06
				Field Specialist: Faust, John
To Landmark #1: 272	Degrees True	From Landmark #1: 92	LM Description: Parking Lot Lamp Post	
To Landmark #2:	Degrees True	From Landmark #2:	LM Description:	
Declination: Degrees				
Wind Direction Reference S/N: 5040392346			Calibration Date:	

WIND DIRECTION

SENSOR IDENTIFICATION

	PRE-MAINTENANCE	POST MAINTENANCE
Mfg.	RM Young AQ	RM Young AQ
Model #	05305	05305
Serial #	50735	19677
Translator Serial #		

WIND DIRECTION ALIGNMENT

Land Mark Reference	PRE-MAINTENANCE				POST MAINTENANCE			
	DVM (volts)	DAS (degrees)	Degrees Difference	Pass/Fail	DVM (volts)	DAS (degrees)	Degrees Difference	Pass/Fail
To 1		276	4	PASS		276	4	PASS
From 1		96	4	PASS		96	4	PASS
To 2								
From 2								
	Average Difference:	4	PASS	Average Difference:	4	PASS		
	Maximum Difference:	4	PASS	Maximum Difference:	4	PASS		

WIND DIRECTION LINEARITY

Check Point	PRE-MAINTENANCE				POST MAINTENANCE			
	DVM (volts)	DAS (degrees)	Degrees Difference	Pass/Fail	DVM (volts)	DAS (degrees)	Degrees Difference	Pass/Fail
1		3	-3	PASS		359	-3	PASS
2		49	1	PASS		43	-1	PASS
3		94	0	PASS		89	0	PASS
4		138	-1	PASS		132	-2	PASS
5		184	1	PASS		179	2	PASS
6		228	-1	PASS		224	0	PASS
7		274	1	PASS		272	3	PASS
8		321	2	PASS		317	1	PASS
	Average Difference:	1	PASS	Average Difference:	1	PASS		
	Maximum Difference:	3	PASS	Maximum Difference:	3	PASS		

PRE	POST		
Torque gm-cm	Pass/Fail	Torque gm-cm	Pass/Fail

Wind direction starting threshold accuracy goal:
RM Young AQ <= 9 g-cm

Pre-Maint Wind Direction Comments:	
Post Maint Wind Direction Comments:	



WIND SPEED CALIBRATION FORM

Network: NPS	Location: Old Faithful	Site: YELL-OF	Date: 05/23/07	Date of Last Site Visit: 10/26/06
				Field Specialist: Faust, John

Wind Speed Reference S/N: CA 02241	Calibration Date:
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WIND SPEED

SENSOR IDENTIFICATION

	PRE-MAINTENANCE	POST MAINTENANCE
Mfg.	RM Young AQ	RM Young AQ
Model #	05305	05305
Serial #	50735	19677
Translator Serial #		

WIND SPEED TRANSLATOR CARD

Card Setting	PRE		POST	
	DVM (volts)	DAS (m/s)	DVM (volts)	DAS (m/s)
Zero				
Span				
Oscillator Frequency (Hz) =				Data Logger Should Read

WIND SPEED STARTING THRESHOLD

PRE		POST	
Torque gm-cm	Pass/Fail	Torque gm-cm	Pass/Fail

Wind speed starting threshold accuracy goal:
RM Young AQ <= 0.3 g-cm

Motor Speed (rpm)	WIND SPEED PRE-MAINTENANCE					WIND SPEED POST MAINTENANCE								
	Climatronics (m/s)	RM Young (m/s)	Met One	DVM (volts)	DAS (m/s)	Difference (m/s)	% Difference	Pass/Fail	DVM (volts)	DAS (m/s)	Difference (m/s)	% Difference	Pass/Fail	
100	2.574	0.510	0.45											
300	7.274	1.540	8.45		1.536	-0.004		PASS		1.536	-0.004			PASS
600	14.324	3.070	16.44											
900	21.375	4.610	24.44		4.608	-0.002		PASS		4.608	-0.002			PASS
1200	28.425	6.140	N/A											
1800	42.526	9.220	48.44		9.216	-0.004	0.0%	PASS		9.216	-0.004	0.0%		PASS
4000	N/A	20.480	N/A		20.480	0.000	0.0%	PASS		20.480	0.000	0.0%		PASS
7000	N/A	35.840	N/A		35.800	-0.040	-0.1%	PASS		35.840	0.000	0.0%		PASS
Maximum ABS Difference (use if Wind Speed <5):					0.040						0.004			
Maximum ABS % Difference (use if Wind Speed >=5):						0.1%	PASS				0.0%			PASS

Pre-Maint Wind Speed Comments:	
Post Maint Wind Speed Comments:	

APPENDIX B

Photographic Monitoring

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1/16/2007	16:00	NO IMAGE
1/16/2007	16:15	NO IMAGE
1/16/2007	16:30	NO IMAGE
1/16/2007	16:45	NO IMAGE
1/17/2007	8:00	NO IMAGE
1/17/2007	8:15	NO IMAGE
1/17/2007	8:30	NO IMAGE
1/17/2007	8:45	NO IMAGE
1/17/2007	9:00	NO IMAGE

Date	Time	Snowmobile Code
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1/17/2007	9:30	NO IMAGE
1/17/2007	9:45	NO IMAGE
1/17/2007	10:00	NO IMAGE
1/17/2007	10:15	NO IMAGE
1/17/2007	10:30	NO IMAGE
1/17/2007	10:45	NO IMAGE
1/17/2007	11:00	NO IMAGE
1/17/2007	11:15	NO IMAGE
1/17/2007	11:30	NO IMAGE
1/17/2007	11:45	NO IMAGE
1/17/2007	12:00	NO IMAGE
1/17/2007	12:15	NO IMAGE
1/17/2007	12:30	NO IMAGE
1/17/2007	12:45	NO IMAGE
1/17/2007	13:00	NO IMAGE
1/17/2007	13:15	NO IMAGE
1/17/2007	13:30	NO IMAGE
1/17/2007	13:45	NO IMAGE
1/17/2007	14:00	NO IMAGE
1/17/2007	14:15	NO IMAGE
1/17/2007	14:30	NO IMAGE
1/17/2007	14:45	NO IMAGE
1/17/2007	15:00	NO IMAGE
1/17/2007	15:15	NO IMAGE
1/17/2007	15:30	NO IMAGE
1/17/2007	15:45	NO IMAGE
1/17/2007	16:00	NO IMAGE
1/17/2007	16:15	NO IMAGE
1/17/2007	16:30	NO IMAGE
1/17/2007	16:45	NO IMAGE
1/18/2007	8:00	NO IMAGE
1/18/2007	8:15	NO IMAGE
1/18/2007	8:30	NO IMAGE
1/18/2007	8:45	NO IMAGE
1/18/2007	9:00	NO IMAGE
1/18/2007	9:15	NO IMAGE
1/18/2007	9:30	NO IMAGE
1/18/2007	9:45	NO IMAGE
1/18/2007	10:00	NO IMAGE
1/18/2007	10:15	NO IMAGE
1/18/2007	10:30	NO IMAGE
1/18/2007	10:45	NO IMAGE
1/18/2007	11:00	NO IMAGE
1/18/2007	11:15	NO IMAGE
1/18/2007	11:30	NO IMAGE
1/18/2007	11:45	NO IMAGE
1/18/2007	12:00	NO IMAGE
1/18/2007	12:15	NO IMAGE

Date	Time	Snowmobile Code
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1/18/2007	12:45	NO IMAGE
1/18/2007	13:00	NO IMAGE
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1/18/2007	13:30	NO IMAGE
1/18/2007	13:45	NO IMAGE
1/18/2007	14:00	NO IMAGE
1/18/2007	14:15	NO IMAGE
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1/18/2007	14:45	NO IMAGE
1/18/2007	15:00	NO IMAGE
1/18/2007	15:15	NO IMAGE
1/18/2007	15:30	NO IMAGE
1/18/2007	15:45	NO IMAGE
1/18/2007	16:00	NO IMAGE
1/18/2007	16:15	NO IMAGE
1/18/2007	16:30	NO IMAGE
1/18/2007	16:45	NO IMAGE
1/19/2007	8:00	NO IMAGE
1/19/2007	8:15	NO IMAGE
1/19/2007	8:30	NO IMAGE
1/19/2007	8:45	NO IMAGE
1/19/2007	9:00	NO IMAGE
1/19/2007	9:15	NO IMAGE
1/19/2007	9:30	1
1/19/2007	9:45	1
1/19/2007	10:00	0
1/19/2007	10:15	0
1/19/2007	10:30	1
1/19/2007	10:45	2
1/19/2007	11:00	NO IMAGE
1/19/2007	11:15	NO IMAGE
1/19/2007	11:30	NO IMAGE
1/19/2007	11:45	NO IMAGE
1/19/2007	12:00	NO IMAGE
1/19/2007	12:15	NO IMAGE
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1/19/2007	12:45	NO IMAGE
1/19/2007	13:00	NO IMAGE
1/19/2007	13:15	NO IMAGE
1/19/2007	13:30	NO IMAGE
1/19/2007	13:45	NO IMAGE
1/19/2007	14:00	NO IMAGE
1/19/2007	14:15	NO IMAGE
1/19/2007	14:30	1
1/19/2007	14:45	1
1/19/2007	15:00	1
1/19/2007	15:15	1
1/19/2007	15:30	1

Date	Time	Snowmobile Code
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1/19/2007	16:00	0
1/19/2007	16:15	0
1/19/2007	16:30	0
1/19/2007	16:45	0
1/20/2007	8:00	0
1/20/2007	8:15	0
1/20/2007	8:30	0
1/20/2007	8:45	0
1/20/2007	9:00	0
1/20/2007	9:15	0
1/20/2007	9:30	0
1/20/2007	9:45	0
1/20/2007	10:00	0
1/20/2007	10:15	1
1/20/2007	10:30	1
1/20/2007	10:45	2
1/20/2007	11:00	2
1/20/2007	11:15	2
1/20/2007	11:30	2
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1/20/2007	12:45	4
1/20/2007	13:00	4
1/20/2007	13:15	4
1/20/2007	13:30	4
1/20/2007	13:45	4
1/20/2007	14:00	3
1/20/2007	14:15	1
1/20/2007	14:30	0
1/20/2007	14:45	0
1/20/2007	15:00	0
1/20/2007	15:15	1
1/20/2007	15:30	0
1/20/2007	15:45	0
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1/20/2007	16:15	0
1/20/2007	16:30	0
1/20/2007	16:45	0
1/21/2007	8:00	0
1/21/2007	8:15	0
1/21/2007	8:30	0
1/21/2007	8:45	0
1/21/2007	9:00	0
1/21/2007	9:15	0
1/21/2007	9:30	0

Date	Time	Snowmobile Code
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1/21/2007	10:00	1
1/21/2007	10:15	1
1/21/2007	10:30	1
1/21/2007	10:45	1
1/21/2007	11:00	1
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1/21/2007	14:00	1
1/21/2007	14:15	1
1/21/2007	14:30	1
1/21/2007	14:45	1
1/21/2007	15:00	0
1/21/2007	15:15	0
1/21/2007	15:30	0
1/21/2007	15:45	0
1/21/2007	16:00	1
1/21/2007	16:15	1
1/21/2007	16:30	1
1/21/2007	16:45	1
1/22/2007	8:00	0
1/22/2007	8:15	0
1/22/2007	8:30	0
1/22/2007	8:45	0
1/22/2007	9:00	0
1/22/2007	9:15	0
1/22/2007	9:30	0
1/22/2007	9:45	0
1/22/2007	10:00	0
1/22/2007	10:15	0
1/22/2007	10:30	0
1/22/2007	10:45	1
1/22/2007	11:00	1
1/22/2007	11:15	2
1/22/2007	11:30	2
1/22/2007	11:45	2
1/22/2007	12:00	3
1/22/2007	12:15	3
1/22/2007	12:30	4
1/22/2007	12:45	4

Date	Time	Snowmobile Code
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1/22/2007	13:15	2
1/22/2007	13:30	2
1/22/2007	13:45	2
1/22/2007	14:00	1
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1/22/2007	14:30	1
1/22/2007	14:45	1
1/22/2007	15:00	1
1/22/2007	15:15	1
1/22/2007	15:30	1
1/22/2007	15:45	0
1/22/2007	16:00	0
1/22/2007	16:15	0
1/22/2007	16:30	0
1/22/2007	16:45	0
1/23/2007	8:00	0
1/23/2007	8:15	0
1/23/2007	8:30	0
1/23/2007	8:45	0
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1/23/2007	9:30	0
1/23/2007	9:45	0
1/23/2007	10:00	0
1/23/2007	10:15	0
1/23/2007	10:30	0
1/23/2007	10:45	0
1/23/2007	11:00	1
1/23/2007	11:15	1
1/23/2007	11:30	1
1/23/2007	11:45	2
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1/23/2007	14:00	3
1/23/2007	14:15	2
1/23/2007	14:30	2
1/23/2007	14:45	2
1/23/2007	15:00	0
1/23/2007	15:15	0
1/23/2007	15:30	0
1/23/2007	15:45	0
1/23/2007	16:00	0

Date	Time	Snowmobile Code
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1/24/2007	8:00	0
1/24/2007	8:15	0
1/24/2007	8:30	0
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1/24/2007	9:00	1
1/24/2007	9:15	1
1/24/2007	9:30	1
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1/24/2007	14:15	3
1/24/2007	14:30	2
1/24/2007	14:45	2
1/24/2007	15:00	1
1/24/2007	15:15	0
1/24/2007	15:30	0
1/24/2007	15:45	0
1/24/2007	16:00	0
1/24/2007	16:15	0
1/24/2007	16:30	0
1/24/2007	16:45	0
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1/25/2007	8:15	0
1/25/2007	8:30	0
1/25/2007	8:45	0
1/25/2007	9:00	0
1/25/2007	9:15	0
1/25/2007	9:30	0
1/25/2007	9:45	1
1/25/2007	10:00	0

Date	Time	Snowmobile Code
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1/25/2007	10:45	0
1/25/2007	11:00	1
1/25/2007	11:15	2
1/25/2007	11:30	3
1/25/2007	11:45	3
1/25/2007	12:00	3
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1/25/2007	14:00	2
1/25/2007	14:15	1
1/25/2007	14:30	1
1/25/2007	14:45	1
1/25/2007	15:00	0
1/25/2007	15:15	0
1/25/2007	15:30	0
1/25/2007	15:45	0
1/25/2007	16:00	0
1/25/2007	16:15	0
1/25/2007	16:30	0
1/25/2007	16:45	0
1/26/2007	8:00	1
1/26/2007	8:15	0
1/26/2007	8:30	0
1/26/2007	8:45	0
1/26/2007	9:00	0
1/26/2007	9:15	1
1/26/2007	9:30	0
1/26/2007	9:45	0
1/26/2007	10:00	0
1/26/2007	10:15	0
1/26/2007	10:30	0
1/26/2007	10:45	1
1/26/2007	11:00	2
1/26/2007	11:15	2
1/26/2007	11:30	2
1/26/2007	11:45	3
1/26/2007	12:00	4
1/26/2007	12:15	4
1/26/2007	12:30	4
1/26/2007	12:45	4
1/26/2007	13:00	4
1/26/2007	13:15	4

Date	Time	Snowmobile Code
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1/26/2007	13:45	3
1/26/2007	14:00	3
1/26/2007	14:15	2
1/26/2007	14:30	0
1/26/2007	14:45	0
1/26/2007	15:00	0
1/26/2007	15:15	0
1/26/2007	15:30	0
1/26/2007	15:45	1
1/26/2007	16:00	1
1/26/2007	16:15	0
1/26/2007	16:30	0
1/26/2007	16:45	0
1/27/2007	8:00	0
1/27/2007	8:15	0
1/27/2007	8:30	0
1/27/2007	8:45	0
1/27/2007	9:00	0
1/27/2007	9:15	0
1/27/2007	9:30	0
1/27/2007	9:45	0
1/27/2007	10:00	0
1/27/2007	10:15	0
1/27/2007	10:30	0
1/27/2007	10:45	1
1/27/2007	11:00	2
1/27/2007	11:15	2
1/27/2007	11:30	2
1/27/2007	11:45	3
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1/27/2007	15:15	1
1/27/2007	15:30	1
1/27/2007	15:45	1
1/27/2007	16:00	1
1/27/2007	16:15	1
1/27/2007	16:30	1

Date	Time	Snowmobile Code
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1/28/2007	8:15	0
1/28/2007	8:30	0
1/28/2007	8:45	0
1/28/2007	9:00	0
1/28/2007	9:15	0
1/28/2007	9:30	0
1/28/2007	9:45	0
1/28/2007	10:00	0
1/28/2007	10:15	0
1/28/2007	10:30	0
1/28/2007	10:45	1
1/28/2007	11:00	1
1/28/2007	11:15	1
1/28/2007	11:30	2
1/28/2007	11:45	2
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1/28/2007	14:30	2
1/28/2007	14:45	2
1/28/2007	15:00	2
1/28/2007	15:15	2
1/28/2007	15:30	0
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1/28/2007	16:00	0
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1/28/2007	16:45	0
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1/29/2007	9:30	0
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1/29/2007	10:30	1

Date	Time	Snowmobile Code
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1/29/2007	11:15	1
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1/29/2007	11:45	2
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1/29/2007	13:45	3
1/29/2007	14:00	2
1/29/2007	14:15	2
1/29/2007	14:30	1
1/29/2007	14:45	0
1/29/2007	15:00	1
1/29/2007	15:15	0
1/29/2007	15:30	1
1/29/2007	15:45	1
1/29/2007	16:00	0
1/29/2007	16:15	0
1/29/2007	16:30	0
1/29/2007	16:45	0
1/30/2007	8:00	0
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1/30/2007	9:00	0
1/30/2007	9:15	0
1/30/2007	9:30	0
1/30/2007	9:45	0
1/30/2007	10:00	0
1/30/2007	10:15	0
1/30/2007	10:30	1
1/30/2007	10:45	2
1/30/2007	11:00	2
1/30/2007	11:15	2
1/30/2007	11:30	3
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1/30/2007	12:30	4
1/30/2007	12:45	4
1/30/2007	13:00	4
1/30/2007	13:15	4
1/30/2007	13:30	4
1/30/2007	13:45	4

Date	Time	Snowmobile Code
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1/30/2007	14:45	1
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1/30/2007	16:00	2
1/30/2007	16:15	2
1/30/2007	16:30	1
1/30/2007	16:45	1
1/31/2007	8:00	0
1/31/2007	8:15	0
1/31/2007	8:30	0
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1/31/2007	9:00	0
1/31/2007	9:15	0
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1/31/2007	9:45	0
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1/31/2007	10:15	1
1/31/2007	10:30	1
1/31/2007	10:45	1
1/31/2007	11:00	2
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1/31/2007	15:30	1
1/31/2007	15:45	1
1/31/2007	16:00	1
1/31/2007	16:15	1
1/31/2007	16:30	1
1/31/2007	16:45	1

Date	Time	Snowmobile Code
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2/1/2007	8:15	1
2/1/2007	8:30	1
2/1/2007	8:45	0
2/1/2007	9:00	0
2/1/2007	9:15	0
2/1/2007	9:30	0
2/1/2007	9:45	0
2/1/2007	10:00	1
2/1/2007	10:15	1
2/1/2007	10:30	1
2/1/2007	10:45	1
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2/1/2007	11:30	2
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2/1/2007	13:30	3
2/1/2007	13:45	2
2/1/2007	14:00	2
2/1/2007	14:15	2
2/1/2007	14:30	0
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2/1/2007	15:00	0
2/1/2007	15:15	0
2/1/2007	15:30	0
2/1/2007	15:45	0
2/1/2007	16:00	0
2/1/2007	16:15	0
2/1/2007	16:30	0
2/1/2007	16:45	0
2/2/2007	8:00	0
2/2/2007	8:15	0
2/2/2007	8:30	0
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2/2/2007	9:15	0
2/2/2007	9:30	0
2/2/2007	9:45	0
2/2/2007	10:00	1
2/2/2007	10:15	0
2/2/2007	10:30	0
2/2/2007	10:45	0
2/2/2007	11:00	2

Date	Time	Snowmobile Code
2/2/2007	11:15	2
2/2/2007	11:30	2
2/2/2007	11:45	3
2/2/2007	12:00	3
2/2/2007	12:15	3
2/2/2007	12:30	3
2/2/2007	12:45	3
2/2/2007	13:00	3
2/2/2007	13:15	3
2/2/2007	13:30	3
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2/2/2007	14:30	3
2/2/2007	14:45	2
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2/3/2007	11:45	3
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2/3/2007	13:30	4
2/3/2007	13:45	4
2/3/2007	14:00	1
2/3/2007	14:15	1

Date	Time	Snowmobile Code
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2/3/2007	16:30	1
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2/4/2007	8:45	0
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2/4/2007	9:15	0
2/4/2007	9:30	0
2/4/2007	9:45	0
2/4/2007	10:00	0
2/4/2007	10:15	0
2/4/2007	10:30	1
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2/4/2007	11:15	2
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2/4/2007	15:30	1
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2/4/2007	16:30	0
2/4/2007	16:45	0
2/5/2007	8:00	0
2/5/2007	8:15	0

Date	Time	Snowmobile Code
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2/6/2007	10:15	0
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2/6/2007	11:30	2

Date	Time	Snowmobile Code
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2/6/2007	15:45	1
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2/6/2007	16:15	0
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2/7/2007	14:45	1

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Date	Time	Snowmobile Code
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Date	Time	Snowmobile Code
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Date	Time	Snowmobile Code
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Date	Time	Snowmobile Code
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Date	Time	Snowmobile Code
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Date	Time	Snowmobile Code
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Date	Time	Snowmobile Code
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2/19/2007	15:00	2
2/19/2007	15:15	1
2/19/2007	15:30	1
2/19/2007	15:45	0
2/19/2007	16:00	0
2/19/2007	16:15	0

Date	Time	Snowmobile Code
2/19/2007	16:30	1
2/19/2007	16:45	0
2/20/2007	8:00	1
2/20/2007	8:15	1
2/20/2007	8:30	1
2/20/2007	8:45	1
2/20/2007	9:00	1
2/20/2007	9:15	1
2/20/2007	9:30	0
2/20/2007	9:45	0
2/20/2007	10:00	0
2/20/2007	10:15	0
2/20/2007	10:30	0
2/20/2007	10:45	1
2/20/2007	11:00	1
2/20/2007	11:15	2
2/20/2007	11:30	2
2/20/2007	11:45	3
2/20/2007	12:00	3
2/20/2007	12:15	3
2/20/2007	12:30	3
2/20/2007	12:45	4
2/20/2007	13:00	4
2/20/2007	13:15	4
2/20/2007	13:30	3
2/20/2007	13:45	3
2/20/2007	14:00	3
2/20/2007	14:15	3
2/20/2007	14:30	3
2/20/2007	14:45	3
2/20/2007	15:00	2
2/20/2007	15:15	2
2/20/2007	15:30	2
2/20/2007	15:45	1
2/20/2007	16:00	1
2/20/2007	16:15	0
2/20/2007	16:30	0
2/20/2007	16:45	0
2/21/2007	8:00	0
2/21/2007	8:15	0
2/21/2007	8:30	0
2/21/2007	8:45	0
2/21/2007	9:00	0
2/21/2007	9:15	0
2/21/2007	9:30	0
2/21/2007	9:45	0
2/21/2007	10:00	0
2/21/2007	10:15	1

Date	Time	Snowmobile Code
2/21/2007	10:30	1
2/21/2007	10:45	1
2/21/2007	11:00	1
2/21/2007	11:15	2
2/21/2007	11:30	2
2/21/2007	11:45	2
2/21/2007	12:00	2
2/21/2007	12:15	3
2/21/2007	12:30	3
2/21/2007	12:45	3
2/21/2007	13:00	4
2/21/2007	13:15	4
2/21/2007	13:30	4
2/21/2007	13:45	4
2/21/2007	14:00	3
2/21/2007	14:15	2
2/21/2007	14:30	2
2/21/2007	14:45	1
2/21/2007	15:00	1
2/21/2007	15:15	NO IMAGE
2/21/2007	15:30	NO IMAGE
2/21/2007	15:45	NO IMAGE
2/21/2007	16:00	0
2/21/2007	16:15	0
2/21/2007	16:30	0
2/21/2007	16:45	0
2/22/2007	8:00	1
2/22/2007	8:15	1
2/22/2007	8:30	1
2/22/2007	8:45	1
2/22/2007	9:00	1
2/22/2007	9:15	1
2/22/2007	9:30	0
2/22/2007	9:45	0
2/22/2007	10:00	0
2/22/2007	10:15	0
2/22/2007	10:30	0
2/22/2007	10:45	2
2/22/2007	11:00	2
2/22/2007	11:15	2
2/22/2007	11:30	2
2/22/2007	11:45	2
2/22/2007	12:00	2
2/22/2007	12:15	3
2/22/2007	12:30	3
2/22/2007	12:45	3
2/22/2007	13:00	3
2/22/2007	13:15	3
2/22/2007	13:30	3

Date	Time	Snowmobile Code
2/22/2007	13:45	3
2/22/2007	14:00	3
2/22/2007	14:15	2
2/22/2007	14:30	1
2/22/2007	14:45	1
2/22/2007	15:00	1
2/22/2007	15:15	1
2/22/2007	15:30	1
2/22/2007	15:45	0
2/22/2007	16:00	0
2/22/2007	16:15	1
2/22/2007	16:30	1
2/22/2007	16:45	1
2/23/2007	8:00	1
2/23/2007	8:15	1
2/23/2007	8:30	1
2/23/2007	8:45	1
2/23/2007	9:00	1
2/23/2007	9:15	0
2/23/2007	9:30	0
2/23/2007	9:45	0
2/23/2007	10:00	0
2/23/2007	10:15	0
2/23/2007	10:30	1
2/23/2007	10:45	1
2/23/2007	11:00	2
2/23/2007	11:15	2
2/23/2007	11:30	2
2/23/2007	11:45	3
2/23/2007	12:00	4
2/23/2007	12:15	4
2/23/2007	12:30	4
2/23/2007	12:45	4
2/23/2007	13:00	4
2/23/2007	13:15	3
2/23/2007	13:30	3
2/23/2007	13:45	3
2/23/2007	14:00	2
2/23/2007	14:15	2
2/23/2007	14:30	1
2/23/2007	14:45	0
2/23/2007	15:00	0
2/23/2007	15:15	0
2/23/2007	15:30	0
2/23/2007	15:45	1
2/23/2007	16:00	0
2/23/2007	16:15	0
2/23/2007	16:30	0

Date	Time	Snowmobile Code
2/23/2007	16:45	1
2/24/2007	8:00	0
2/24/2007	8:15	0
2/24/2007	8:30	0
2/24/2007	8:45	0
2/24/2007	9:00	0
2/24/2007	9:15	0
2/24/2007	9:30	0
2/24/2007	9:45	0
2/24/2007	10:00	0
2/24/2007	10:15	0
2/24/2007	10:30	0
2/24/2007	10:45	1
2/24/2007	11:00	2
2/24/2007	11:15	2
2/24/2007	11:30	2
2/24/2007	11:45	3
2/24/2007	12:00	3
2/24/2007	12:15	4
2/24/2007	12:30	4
2/24/2007	12:45	4
2/24/2007	13:00	4
2/24/2007	13:15	4
2/24/2007	13:30	4
2/24/2007	13:45	4
2/24/2007	14:00	4
2/24/2007	14:15	4
2/24/2007	14:30	3
2/24/2007	14:45	1
2/24/2007	15:00	1
2/24/2007	15:15	1
2/24/2007	15:30	1
2/24/2007	15:45	1
2/24/2007	16:00	0
2/24/2007	16:15	0
2/24/2007	16:30	0
2/24/2007	16:45	0
2/25/2007	8:00	0
2/25/2007	8:15	0
2/25/2007	8:30	0
2/25/2007	8:45	1
2/25/2007	9:00	0
2/25/2007	9:15	0
2/25/2007	9:30	0
2/25/2007	9:45	1
2/25/2007	10:00	1
2/25/2007	10:15	1
2/25/2007	10:30	1

Date	Time	Snowmobile Code
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2/25/2007	11:00	2
2/25/2007	11:15	2
2/25/2007	11:30	2
2/25/2007	11:45	2
2/25/2007	12:00	3
2/25/2007	12:15	3
2/25/2007	12:30	3
2/25/2007	12:45	3
2/25/2007	13:00	3
2/25/2007	13:15	3
2/25/2007	13:30	3
2/25/2007	13:45	3
2/25/2007	14:00	3
2/25/2007	14:15	2
2/25/2007	14:30	2
2/25/2007	14:45	2
2/25/2007	15:00	2
2/25/2007	15:15	1
2/25/2007	15:30	0
2/25/2007	15:45	0
2/25/2007	16:00	0
2/25/2007	16:15	0
2/25/2007	16:30	0
2/25/2007	16:45	0
2/26/2007	8:00	0
2/26/2007	8:15	0
2/26/2007	8:30	0
2/26/2007	8:45	0
2/26/2007	9:00	0
2/26/2007	9:15	0
2/26/2007	9:30	0
2/26/2007	9:45	0
2/26/2007	10:00	1
2/26/2007	10:15	1
2/26/2007	10:30	1
2/26/2007	10:45	1
2/26/2007	11:00	1
2/26/2007	11:15	2
2/26/2007	11:30	3
2/26/2007	11:45	4
2/26/2007	12:00	4
2/26/2007	12:15	4
2/26/2007	12:30	4
2/26/2007	12:45	4
2/26/2007	13:00	4
2/26/2007	13:15	4
2/26/2007	13:30	2
2/26/2007	13:45	2

Date	Time	Snowmobile Code
2/26/2007	14:00	2
2/26/2007	14:15	2
2/26/2007	14:30	2
2/26/2007	14:45	1
2/26/2007	15:00	0
2/26/2007	15:15	0
2/26/2007	15:30	0
2/26/2007	15:45	0
2/26/2007	16:00	0
2/26/2007	16:15	0
2/26/2007	16:30	0
2/26/2007	16:45	0
2/27/2007	8:00	1
2/27/2007	8:15	1
2/27/2007	8:30	1
2/27/2007	8:45	1
2/27/2007	9:00	0
2/27/2007	9:15	0
2/27/2007	9:30	0
2/27/2007	9:45	0
2/27/2007	10:00	0
2/27/2007	10:15	0
2/27/2007	10:30	0
2/27/2007	10:45	0
2/27/2007	11:00	1
2/27/2007	11:15	2
2/27/2007	11:30	2
2/27/2007	11:45	3
2/27/2007	12:00	4
2/27/2007	12:15	4
2/27/2007	12:30	4
2/27/2007	12:45	4
2/27/2007	13:00	4
2/27/2007	13:15	4
2/27/2007	13:30	3
2/27/2007	13:45	3
2/27/2007	14:00	3
2/27/2007	14:15	3
2/27/2007	14:30	2
2/27/2007	14:45	2
2/27/2007	15:00	1
2/27/2007	15:15	1
2/27/2007	15:30	1
2/27/2007	15:45	1
2/27/2007	16:00	1
2/27/2007	16:15	1
2/27/2007	16:30	0
2/27/2007	16:45	0

Date	Time	Snowmobile Code
2/28/2007	8:00	0
2/28/2007	8:15	0
2/28/2007	8:30	0
2/28/2007	8:45	0
2/28/2007	9:00	0
2/28/2007	9:15	0
2/28/2007	9:30	0
2/28/2007	9:45	0
2/28/2007	10:00	0
2/28/2007	10:15	0
2/28/2007	10:30	1
2/28/2007	10:45	1
2/28/2007	11:00	1
2/28/2007	11:15	2
2/28/2007	11:30	2
2/28/2007	11:45	2
2/28/2007	12:00	3
2/28/2007	12:15	3
2/28/2007	12:30	3
2/28/2007	12:45	3
2/28/2007	13:00	3
2/28/2007	13:15	3
2/28/2007	13:30	3
2/28/2007	13:45	2
2/28/2007	14:00	2
2/28/2007	14:15	1
2/28/2007	14:30	1
2/28/2007	14:45	1
2/28/2007	15:00	1
2/28/2007	15:15	0
2/28/2007	15:30	0
2/28/2007	15:45	0
2/28/2007	16:00	1
2/28/2007	16:15	1
2/28/2007	16:30	1
2/28/2007	16:45	1
3/1/2007	8:00	0
3/1/2007	8:15	0
3/1/2007	8:30	0
3/1/2007	8:45	0
3/1/2007	9:00	0
3/1/2007	9:15	0
3/1/2007	9:30	0
3/1/2007	9:45	0
3/1/2007	10:00	0
3/1/2007	10:15	0
3/1/2007	10:30	1
3/1/2007	10:45	2
3/1/2007	11:00	2

Date	Time	Snowmobile Code
3/1/2007	11:15	2
3/1/2007	11:30	3
3/1/2007	11:45	4
3/1/2007	12:00	4
3/1/2007	12:15	4
3/1/2007	12:30	4
3/1/2007	12:45	4
3/1/2007	13:00	3
3/1/2007	13:15	3
3/1/2007	13:30	2
3/1/2007	13:45	2
3/1/2007	14:00	0
3/1/2007	14:15	1
3/1/2007	14:30	1
3/1/2007	14:45	1
3/1/2007	15:00	1
3/1/2007	15:15	0
3/1/2007	15:30	0
3/1/2007	15:45	0
3/1/2007	16:00	0
3/1/2007	16:15	0
3/1/2007	16:30	0
3/1/2007	16:45	0
3/2/2007	8:00	1
3/2/2007	8:15	0
3/2/2007	8:30	0
3/2/2007	8:45	0
3/2/2007	9:00	0
3/2/2007	9:15	0
3/2/2007	9:30	0
3/2/2007	9:45	0
3/2/2007	10:00	0
3/2/2007	10:15	0
3/2/2007	10:30	0
3/2/2007	10:45	0
3/2/2007	11:00	1
3/2/2007	11:15	1
3/2/2007	11:30	2
3/2/2007	11:45	3
3/2/2007	12:00	3
3/2/2007	12:15	3
3/2/2007	12:30	3
3/2/2007	12:45	3
3/2/2007	13:00	4
3/2/2007	13:15	4
3/2/2007	13:30	4
3/2/2007	13:45	4
3/2/2007	14:00	2
3/2/2007	14:15	2

Date	Time	Snowmobile Code
3/2/2007	14:30	2
3/2/2007	14:45	0
3/2/2007	15:00	1
3/2/2007	15:15	1
3/2/2007	15:30	1
3/2/2007	15:45	0
3/2/2007	16:00	0
3/2/2007	16:15	0
3/2/2007	16:30	0
3/2/2007	16:45	0
3/3/2007	8:00	0
3/3/2007	8:15	0
3/3/2007	8:30	0
3/3/2007	8:45	0
3/3/2007	9:00	0
3/3/2007	9:15	0
3/3/2007	9:30	0
3/3/2007	9:45	0
3/3/2007	10:00	2
3/3/2007	10:15	2
3/3/2007	10:30	1
3/3/2007	10:45	2
3/3/2007	11:00	2
3/3/2007	11:15	2
3/3/2007	11:30	2
3/3/2007	11:45	3
3/3/2007	12:00	3
3/3/2007	12:15	4
3/3/2007	12:30	4
3/3/2007	12:45	4
3/3/2007	13:00	4
3/3/2007	13:15	4
3/3/2007	13:30	4
3/3/2007	13:45	3
3/3/2007	14:00	3
3/3/2007	14:15	3
3/3/2007	14:30	2
3/3/2007	14:45	2
3/3/2007	15:00	1
3/3/2007	15:15	1
3/3/2007	15:30	2
3/3/2007	15:45	1
3/3/2007	16:00	2
3/3/2007	16:15	2
3/3/2007	16:30	0
3/3/2007	16:45	0
3/4/2007	8:00	0
3/4/2007	8:15	0

Date	Time	Snowmobile Code
3/4/2007	8:30	0
3/4/2007	8:45	0
3/4/2007	9:00	0
3/4/2007	9:15	0
3/4/2007	9:30	0
3/4/2007	9:45	0
3/4/2007	10:00	0
3/4/2007	10:15	0
3/4/2007	10:30	1
3/4/2007	10:45	2
3/4/2007	11:00	2
3/4/2007	11:15	3
3/4/2007	11:30	3
3/4/2007	11:45	3
3/4/2007	12:00	4
3/4/2007	12:15	4
3/4/2007	12:30	4
3/4/2007	12:45	4
3/4/2007	13:00	4
3/4/2007	13:15	4
3/4/2007	13:30	4
3/4/2007	13:45	3
3/4/2007	14:00	2
3/4/2007	14:15	1
3/4/2007	14:30	1
3/4/2007	14:45	1
3/4/2007	15:00	1
3/4/2007	15:15	0
3/4/2007	15:30	0
3/4/2007	15:45	0
3/4/2007	16:00	0
3/4/2007	16:15	0
3/4/2007	16:30	0
3/4/2007	16:45	0
3/5/2007	8:00	0
3/5/2007	8:15	0
3/5/2007	8:30	0
3/5/2007	8:45	0
3/5/2007	9:00	0
3/5/2007	9:15	0
3/5/2007	9:30	0
3/5/2007	9:45	0
3/5/2007	10:00	0
3/5/2007	10:15	0
3/5/2007	10:30	1
3/5/2007	10:45	0
3/5/2007	11:00	2
3/5/2007	11:15	2
3/5/2007	11:30	3

Date	Time	Snowmobile Code
3/5/2007	11:45	3
3/5/2007	12:00	4
3/5/2007	12:15	4
3/5/2007	12:30	3
3/5/2007	12:45	3
3/5/2007	13:00	3
3/5/2007	13:15	3
3/5/2007	13:30	2
3/5/2007	13:45	0
3/5/2007	14:00	0
3/5/2007	14:15	0
3/5/2007	14:30	0
3/5/2007	14:45	0
3/5/2007	15:00	0
3/5/2007	15:15	0
3/5/2007	15:30	1
3/5/2007	15:45	1
3/5/2007	16:00	1
3/5/2007	16:15	1
3/5/2007	16:30	1
3/5/2007	16:45	0
3/6/2007	8:00	0
3/6/2007	8:15	0
3/6/2007	8:30	0
3/6/2007	8:45	0
3/6/2007	9:00	0
3/6/2007	9:15	0
3/6/2007	9:30	0
3/6/2007	9:45	0
3/6/2007	10:00	0
3/6/2007	10:15	0
3/6/2007	10:30	0
3/6/2007	10:45	2
3/6/2007	11:00	2
3/6/2007	11:15	2
3/6/2007	11:30	3
3/6/2007	11:45	3
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3/6/2007	12:15	4
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3/6/2007	13:00	4
3/6/2007	13:15	4
3/6/2007	13:30	3
3/6/2007	13:45	3
3/6/2007	14:00	3
3/6/2007	14:15	3
3/6/2007	14:30	2
3/6/2007	14:45	1

Date	Time	Snowmobile Code
3/6/2007	15:00	1
3/6/2007	15:15	1
3/6/2007	15:30	1
3/6/2007	15:45	1
3/6/2007	16:00	1
3/6/2007	16:15	0
3/6/2007	16:30	0
3/6/2007	16:45	0
3/7/2007	8:00	0
3/7/2007	8:15	0
3/7/2007	8:30	0
3/7/2007	8:45	0
3/7/2007	9:00	0
3/7/2007	9:15	0
3/7/2007	9:30	0
3/7/2007	9:45	0
3/7/2007	10:00	0
3/7/2007	10:15	0
3/7/2007	10:30	1
3/7/2007	10:45	1
3/7/2007	11:00	2
3/7/2007	11:15	2
3/7/2007	11:30	3
3/7/2007	11:45	3
3/7/2007	12:00	4
3/7/2007	12:15	4
3/7/2007	12:30	4
3/7/2007	12:45	4
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3/7/2007	14:00	3
3/7/2007	14:15	3
3/7/2007	14:30	2
3/7/2007	14:45	2
3/7/2007	15:00	0
3/7/2007	15:15	0
3/7/2007	15:30	0
3/7/2007	15:45	1
3/7/2007	16:00	1
3/7/2007	16:15	0
3/7/2007	16:30	0
3/7/2007	16:45	0
3/8/2007	8:00	1
3/8/2007	8:15	1
3/8/2007	8:30	1
3/8/2007	8:45	1

Date	Time	Snowmobile Code
3/8/2007	9:00	0
3/8/2007	9:15	0
3/8/2007	9:30	0
3/8/2007	9:45	1
3/8/2007	10:00	0
3/8/2007	10:15	0
3/8/2007	10:30	0
3/8/2007	10:45	0
3/8/2007	11:00	2
3/8/2007	11:15	2
3/8/2007	11:30	2
3/8/2007	11:45	3
3/8/2007	12:00	3
3/8/2007	12:15	3
3/8/2007	12:30	3
3/8/2007	12:45	3
3/8/2007	13:00	3
3/8/2007	13:15	2
3/8/2007	13:30	2
3/8/2007	13:45	2
3/8/2007	14:00	2
3/8/2007	14:15	2
3/8/2007	14:30	1
3/8/2007	14:45	1
3/8/2007	15:00	1
3/8/2007	15:15	1
3/8/2007	15:30	1
3/8/2007	15:45	0
3/8/2007	16:00	0
3/8/2007	16:15	0
3/8/2007	16:30	0
3/8/2007	16:45	0
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3/9/2007	8:15	0
3/9/2007	8:30	0
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3/9/2007	9:15	0
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3/9/2007	10:30	2
3/9/2007	10:45	2
3/9/2007	11:00	3
3/9/2007	11:15	3
3/9/2007	11:30	3
3/9/2007	11:45	4
3/9/2007	12:00	4

Date	Time	Snowmobile Code
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3/10/2007	15:15	1

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3/12/2007	9:15	0

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Date	Time	Snowmobile Code
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3/26/2007	9:45	0
3/26/2007	10:00	0
3/26/2007	10:15	0
3/26/2007	10:30	0
3/26/2007	10:45	0
3/26/2007	11:00	0
3/26/2007	11:15	0
3/26/2007	11:30	0
3/26/2007	11:45	0
3/26/2007	12:00	0
3/26/2007	12:15	0
3/26/2007	12:30	0
3/26/2007	12:45	0
3/26/2007	13:00	0
3/26/2007	13:15	0
3/26/2007	13:30	0
3/26/2007	13:45	0
3/26/2007	14:00	0
3/26/2007	14:15	0
3/26/2007	14:30	0
3/26/2007	14:45	0
3/26/2007	15:00	0
3/26/2007	15:15	0
3/26/2007	15:30	0
3/26/2007	15:45	0
3/26/2007	16:00	0
3/26/2007	16:15	0
3/26/2007	16:30	0
3/26/2007	16:45	0